

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

|  |   |                       |
|--|---|-----------------------|
| In the Matter of the Application of              | ) |                       |
| Transource Missouri, LLC for a Certificate       | ) |                       |
| of Convenience and Necessity Authorizing         | ) |                       |
| it to Own, Operate, and Maintain the             | ) | Case No. EA-2016-0190 |
| Switch Station Necessary for the Interconnection | ) |                       |
| of the Osborn Wind Energy Center with the        | ) |                       |
| Sibley-Nebraska City Electric Transmission       | ) |                       |
| Project  | ) |                       |

**APPLICATION OF TRANSOURCE MISSOURI, LLC  
FOR ORDER DECLINING JURISDICTION OR, IN THE ALTERNATIVE,  
A CERTIFICATE OF CONVENIENCE AND NECESSITY AND  
MOTION FOR EXPEDITED TREATMENT**

Transource Missouri, LLC (“Transource Missouri” or “Applicant”), pursuant to Section 393.170.1, 4 CSR 240-2.060, and 4 CSR 240-3.105, hereby submits its Application for an order declining jurisdiction or, in the alternative, a Certificate of Convenience and Necessity (“CCN”) to own, operate, and maintain a 345 kV Interconnection Switch Station in DeKalb County, Missouri (“Switch Station”) necessary to connect the Osborn Wind Energy Center with the Applicant’s Sibley-Nebraska City 345 kV electric transmission line project currently under construction.<sup>1</sup> The Applicant also seeks a waiver of Commission Rules 4 CSR 240-3.175 and 4 CSR 240-3.190.

Transource Missouri moves for expedited treatment of this Application, pursuant to 4 CSR 240-2.080(14).

**I. APPLICANT**

1. Transource Missouri is a Delaware limited liability company qualified to conduct business in Missouri, with its principal place of business located at 1 Riverside Plaza, Columbus,

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<sup>1</sup> The Applicant will file a signed verification of this Application in the next ten business days.

Ohio 43215. A copy of Transource Missouri's certificate from the Missouri Secretary of State authorizing it to do business in Missouri is attached as Exhibit 1.

2. Transource Missouri is a transmission-owning entity regulated by the Federal Energy Regulatory Commission ("FERC") with its principal business devoted exclusively to constructing, financing, owning, operating and maintaining transmission facilities that provide wholesale, interstate electric transmission service via the Southwest Power Pool, Inc. ("SPP") Open-Access Transmission Tariff ("OATT"). Transource Missouri is not a Missouri rate-regulated entity and does not directly serve retail electric customers in Missouri.

3. Transource Missouri is a wholly-owned subsidiary of Transource Energy, LLC ("Transource"), a Delaware limited liability company with its principal place of business in Columbus, Ohio.

4. Transource was established as a holding company to develop, acquire, construct, finance, own, operate, and maintain electric transmission projects. Transource conducts business through its subsidiaries like Transource Missouri who will construct, finance, own, operate, and/or maintain regional transmission facilities.

5. Transource has two members: (a) AEP Transmission Holding Company, LLC, which owns 86.5% of Transource and is a wholly-owned subsidiary of American Electric Power Company, Inc. ("AEP"), and (b) GPE Transmission Holding Company, LLC, which owns 13.5% of Transource and is a wholly-owned subsidiary of Great Plains Energy Incorporated ("GPE"). GPE is the parent corporation of Kansas City Power & Light Company ("KCP&L") and KCP&L Greater Missouri Operations Company ("GMO"). Transource's equity funding is provided by its two members, consistent with its ownership structure. Debt may be issued by Transource or its utility subsidiaries, as appropriate, through a combination of bank facilities and term financing to

capitalize investments. Transource is operated by a full-time, dedicated staff provided by subsidiaries and affiliates of AEP and GPE.

6. Pleadings, notices, orders, and other correspondence and communications related to this Application should be sent to the undersigned counsel and also to:

Peggy Simmons  
Director, Transmission Asset Strategy and Policy  
American Electric Power Company, Inc.  
1 Riverside Plaza  
Columbus, OH 43215  
(614) 716-2510  
pisimmons@aep.com

Lois Liechti  
Director, Regulatory Affairs  
Kansas City Power & Light Company  
1200 Main Street  
Kansas City, MO 64105  
(816) 556-2612  
Lois.liechti@kcpl.com

7. The Applicant has no pending action or final unsatisfied judgment or decision against it from any state or federal agency or court involving customer service or rates that has occurred within three years of the date of this Application. The Applicant also has no overdue annual reports or assessment fees.

8. In 2013 Transource Missouri obtained a line CCN from the Commission to construct, finance, own, operate and maintain two SPP-approved 345 kV regional electric transmission projects known as the Iatan-Nashua Project and the Sibley-Nebraska City Project. See Report & Order, In re Transource Missouri, LLC, No. EA-2013-0098 (Aug. 7, 2013). Transource Missouri's portion of the Sibley-Nebraska City Project is currently under construction with an expected in-service date of December 31, 2016, and is located entirely within Missouri. When complete, the Applicant's portion of the new transmission line will

connect with and extend from GMO's Sibley Generating Station in Jackson County to the new Mullin Creek Substation in Nodaway County, and then from the Mullin Creek Substation to the Missouri River crossing in Holt County. Omaha Public Power District ("OPPD") will own and operate the portion of the transmission line that extends from the Missouri River crossing into Nebraska and connects to OPPD's Nebraska City substation.

## **II. THE GENERATOR INTERCONNECTION AGREEMENT NECESSITATED BY THE OSBORN WIND ENERGY CENTER**

9. Transource Missouri has entered into a Generator Interconnection Agreement ("GIA") in relation to an interconnection request for interconnection service for the generating facilities of Osborn Wind Energy, LLC ("Osborn Wind"), the developer of the Osborn Wind Energy Center. Transource Missouri (as the transmission owner), SPP (as the transmission provider), and Osborn Wind (as the interconnection customer) have entered into the GIA to fulfill Osborn Wind's request, pursuant to SPP's OATT requirements.

10. Osborn Wind's generation facilities will interconnect to the Transource Missouri line through a new Interconnection Switch Station located in Dekalb County, Missouri. This Switch Station and certain "transmission owner interconnection facilities" described in the GIA are the subject of this Application. The GIA is attached hereto as Exhibit 2. A technical description of the Switch Station is contained in Appendix A to the GIA, specifically at pages A-1 and A-2. A diagram of the Switch Station is contained in Appendix A on page A-9.

11. As the interconnection customer, Osborn Wind will, under the terms of the GIA,<sup>2</sup> construct the Switch Station and certain "transmission owner interconnection facilities" and be obligated to pay for the Switch Station and these other interconnection facilities. Once

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<sup>2</sup> See GIA Appendix A at A-6, Section 6 ("Construction Option Selected by Customer").

completed, Transource Missouri will own, operate, and maintain the Switch Station and these related facilities.

### **III. REQUEST FOR ORDER DECLINING JURISDICTION**

12. Transource Missouri requests that the Commission consider whether it is appropriate for it to assert jurisdiction under the specific facts of this case and to find that under long-standing Missouri case law it need not assert jurisdiction over the Switch Station project described more specifically in Section IV. The facts that may warrant a decision by the Commission to decline jurisdiction include the following:

- a. Although it will own, operate and maintain the Switch Station, Transource Missouri will neither construct nor pay for the Switch Station. The developer Osborn Wind will construct and pay for the Switch Station (as well as the Osborn Wind Energy Center), and will contribute the Switch Station and the land on which it is located to Transource Missouri. As such, the express terms of Section 393.170.1 do not apply in that “no ... electrical corporation ... shall begin construction of ... electric plant” and, thus, the Commission is not required to grant its “permission and approval” to Transource Missouri under the statute.
- b. Transource Missouri will not pay Osborn Wind for the Switch Station, which the developer will contribute to the Applicant and which will not increase the Applicant’s FERC-regulated rate base.
- c. Transource Missouri will not exercise eminent domain in connection with its ownership, operation and maintenance of the Switch Station because all the necessary real estate rights have already been secured by Osborn Wind on privately held property.
- d. Transource Missouri is regulated by FERC because its business is devoted exclusively to constructing, financing, owning, operating and maintaining transmission

facilities that provide wholesale, interstate electric transmission service. Applicant is not rate-regulated by this Commission, and does not directly serve retail electric customers in Missouri.

e. SPP's OATT was filed as Attachment 2 to Transource Missouri's application in Case No. EA-2013-0098, indicating that facilities such as the Switch Station were contemplated by the Commission. In granting Transource Missouri its CCN, the Commission stated:

There is a need for the service to be rendered by the Projects based upon studies performed by SPP in 2009 and 2010. These studies demonstrated that the Projects will improve electric grid reliability, minimize transmission congestion effects, bring economic benefits to SPP members, and help support public policy goals regarding renewable energy [emphasis added].

13. In light of the foregoing, Transource Missouri believes it would be reasonable for the Commission not to assert jurisdiction over the Switch Station in this proceeding.

14. Nevertheless, if the Commission decides to assert jurisdiction, the Applicant requests that the Commission grant the CCN as requested in Section IV, along with the waivers and expedited treatment requested in Sections V and VI.

**IV. REQUEST FOR CERTIFICATE OF CONVENIENCE AND NECESSITY:  
PROJECT DESCRIPTION AND NEED**

15. Transource Missouri seeks to own, operate, and maintain the Switch Station in DeKalb County which will interconnect the approximately 200 MW Osborn Wind Energy Center located in DeKalb County with the Nebraska City-Mullin Creek-Sibley transmission line. A diagram of the Switch Station and surrounding facilities is found in Appendix A on page A-9

of the GIA. The legal description of the real property on which the Switch Station will be located is attached as Exhibit 3.

16. As the interconnection customer, Osborn Wind will construct the Switch Station and certain transmission owner interconnection facilities described in Section 1(a)(b) and Section 2(a) of Appendix A to the GIA.

17. The Switch Station is a necessary component of the electrical facility for the Osborn Wind Energy Center to have interconnection with and access to the transmission grid so that it can deliver capacity and energy to its customer. The Osborn Wind Energy Center generating facility will have a nameplate capacity of up to 200.1 MW that will produce wind energy to help meet renewable energy public policy goals.

18. As noted above, when the Commission granted Transource Missouri its CCN, it specifically stated that its projects will “help support public policy goals regarding renewable energy,” as well as improve grid reliability and minimize transmission congestion. Clearly, the Switch Station is a necessary component of the transmission grid to help meet the public policy goals that supported the Commission’s decision to grant a CCN to Transource Missouri to own and operate the Sibley-Nebraska City Project.

19. The Switch Station will be constructed and initially owned by Osborn Wind pursuant to the GIA entered into by Osborn Wind, SPP, and Transource Missouri. Under the GIA, Osborn Wind will convey, transfer, and contribute the Switch Station, the property on which it is located, and certain associated transmission owner interconnection facilities to Transource Missouri prior to energizing the Switch Station. The estimated cost of the Switch Station and the associated interconnection facilities that will be transferred and contributed to Transource Missouri from Osborn Wind without payment is \$16,755,000. Transource Missouri

will construct and own additional network upgrades costing \$2,075,000 which will be paid for by Osborn Wind. See GIA, Appendix A-3 and A-4.

20. Transource Missouri will not exercise the power of eminent domain regarding the Switch Station, whose construction and operation will not require approval by any other governmental body under 4 CSR 240-3.105(1)(C).

21. The Switch Station is being constructed by Osborn Wind consistent with and pursuant to the interconnection requirements of Attachment O (Transmission Planning Process) to SPP's FERC-approved OATT. This OATT was filed as Attachment 2 to Transource Missouri's application in Case No. EA-2013-0098, indicating that the interconnection of facilities like the Switch Station with the Sibley-Nebraska City Project were contemplated by the Commission.

22. The foregoing facts demonstrate that granting this Application is both necessary and convenient to serve the public interest.

## **V. REQUEST FOR WAIVER OF REPORTING REQUIREMENTS**

23. Because Transource Missouri will have no Missouri retail customers and no rates set by this Commission, it requests waiver of 4 CSR 240-3.175, which would otherwise require it to file depreciation studies with the Commission, and 4 CSR 240-3.190, which would otherwise require it to file fuel and outage reports with the Commission. Rules 4 CSR 240-3.175 and 4 CSR 240-3.190 are designed for vertically-integrated retail electric utilities, which Transource Missouri is not. The Commission waived such requirements when it granted line CCNs to ITC Midwest LLC and Entergy Arkansas, Inc. which only own and operate transmission facilities and which have no retail customers.

24. Good cause exists for granting waiver of 4 CSR 240-3.175 and 4 CSR 240-3.190 because Transource Missouri will exclusively serve the wholesale, interstate bulk electricity



system which is regulated by FERC. Transource Missouri will not serve any Missouri retail customers with the Switch Station. Because FERC, and not this Commission, sets interstate rates for transmission service, no other public utility will be affected by such waiver.

25. Other than as affected by these requested waivers, Transource Missouri agrees to produce in Missouri, upon reasonable notice, duplicate copies of those portions of its books and records necessary for the Commission and Transource Missouri to perform their statutory duties.

## **VI. MOTION FOR EXPEDITED TREATMENT**

26. Transource Missouri requests that the Commission grant the CCN Application or that it decline jurisdiction as soon as reasonably practical, but in any event no later than 90 days after the filing of this Application.

27. The Switch Station is a key transmission element of the electrical facility for the benefit of the Osborn Wind Energy Center and enables Osborn Wind, as the interconnection customer, access to the transmission grid. The parties to the GIA endeavored to move the contract negotiations and other technical aspects of the transaction forward with all expediency. The Applicant has filed this Application as quickly as possible understanding that to file an application for a CCN without all the relevant contractual arrangements in place would not be administratively efficient for the Commission or the parties involved in this transaction. The construction schedule set forth in the GIA calls for the Switch Station to be energized by December 31, 2016 and to begin commercial operations on February 2, 2017. If the Switch Station is not energized by December 31, 2016, it will necessitate an outage of Transource Missouri's Sibley-Nebraska City transmission line in order to interconnect the Switch Station. The scheduling of a line outage is subject to SPP approval and may be difficult to schedule during the winter peak season. It is therefore imperative that the Commission take action as soon as possible.

28. The Application was filed as quickly as circumstances would allow given discussions by the various parties involved in the Osborn Wind Energy Center and its interconnection to Transource Missouri's Sibley-Nebraska City Project, and their common desire to avoid any material delay in the construction and operation of the Osborn Wind Energy Center. This transaction is similar in size, cost and technology as the recent CCN application filed by Transource Missouri on January 15, 2016, involving the Rock Creek Switch Station interconnecting the Rock Creek Wind Project to the Sibley-Nebraska City transmission line in No. EA-2016-0188. In that case the Commission granted the CCN Application on April 6, 2016, and Staff and the Applicant were able to agree that design documents would be provided to Staff as they become available to the Applicant. Transource Missouri asks that the same treatment be granted in this CCN Application which is similar in size, purpose and technology.

**WHEREFORE** Transource Missouri, LLC respectfully requests that the Commission:

1. Grant the Applicant's Motion for Expedited Treatment filed pursuant to 4 CSR 240-2.080(14).
2. Decline jurisdiction over the Switch Station as it is outside the Commission's statutory jurisdiction and subject to the federally-approved Open Access Transmission Tariff of Southwest Power Pool, Inc.
3. Alternatively, grant the Applicant a Certificate of Convenience and Necessity to own, operate, and maintain the Switch Station, pursuant to Section 393.170.1, 4 CSR 240-2.060, and 4 CSR 240-3.105.
4. Grant waivers from the reporting requirements of 4 CSR 240-3.175 and 4 CSR 3.190.

July 22, 2016

Respectfully submitted,

/s/ Karl Zobrist

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Joshua Harden MBN 57941  
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Kansas City, MO 64111  
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(816) 531-7545 (fax)  
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joshua.harden@dentons.com

Attorneys for Transource Missouri, LLC

**CERTIFICATE OF SERVICE**

I hereby certify that a copy of the foregoing Application was served upon the parties listed below by email or U.S. Mail, postage paid, below this 22nd day of July, 2016.

General Counsel  
Missouri Public Service Commission  
P.O. Box 360  
Jefferson City MO 65102  
staffcounsel@psc.mo.gov

Office of the Public Counsel  
P.O. Box 2230  
Jefferson City MO 65102  
opcservice@ded.mo.gov

/s/ Joshua Harden

Attorneys for Transource Missouri, LLC

# EXHIBIT 1

# State of Missouri



Robin Carnahan  
Secretary of State

## CERTIFICATE OF REGISTRATION FOREIGN LIMITED LIABILITY COMPANY

WHEREAS,

*TRANSOURCE MISSOURI, LLC*  
*FL1236946*

Using in Missouri the name

*TRANSOURCE MISSOURI, LLC*

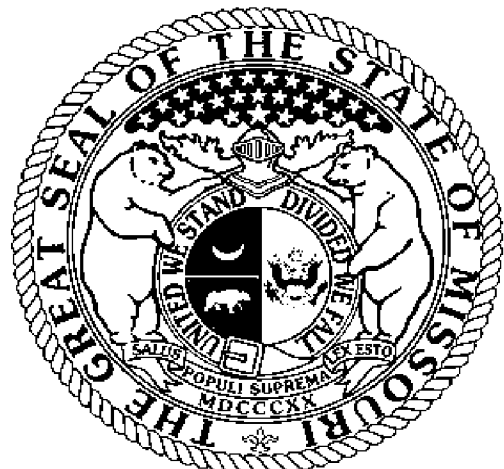
and existing under the laws of the State of Delaware has filed with this state its Application for Registration and whereas this Application for Registration conforms to the Missouri Limited Company Act.

NOW, THEREFORE, I, ROBIN CARNAHAN, Secretary of State of the State of Missouri, by virtue of authority vested in me by law, do hereby certify and declare that on the 21st day of June, 2012, the above Foreign Limited Liability Company is duly authorized to transact business in the State of Missouri and is entitled to any rights granted Limited Liability Companies.

IN TESTIMONY WHEREOF, I hereunto  
set my hand and cause to be affixed the  
GREAT SEAL of the State of Missouri.  
Done at the City of Jefferson, this  
21st day of June, 2012.

A handwritten signature in cursive script that reads "Robin Carnahan".

Secretary of State





# State of Missouri

Robin Carnahan, Secretary of State

Corporations Division  
PO Box 778 / 600 W. Main St., Rm. 322  
Jefferson City, MO 65102

File Number:

FL1236946

Date Filed: 06/21/2012

Robin Carnahan

Secretary of State

## Application for Registration of a Foreign Limited Liability Company

(Submit with filing fee of \$105.00)

1. The name of the foreign limited liability company is Transource Missouri, LLC
2. The name under which the foreign limited liability company will conduct business in Missouri is (must contain "limited company", "limited liability company", "LC", "LLC", "L.C.", or "L.L.C.") (must be filled out if different from line (1)):

3. The foreign limited liability company was formed under the laws of Delaware on the date of June 19, 2012  
(state or jurisdiction) (month/day/year)

4. The purpose of the foreign limited liability company or the general character of the business it proposes to transact in this state is:  
The development, construction, operation and ownership of electric transmission lines and related facilities.

5. The name and address of the limited liability company's registered agent in Missouri is (this line must be completed and include a street address):

|                               |  |                          |
|-------------------------------|--|--------------------------|
| <u>C T Corporation System</u> | <u>120 South Central Avenue</u>  | <u>Clayton, MO 63105</u> |
| Name                          | Address (PO Box may <u>only</u> be used in conjunction with a physical street address) | City/State/Zip           |

The Secretary of State is appointed agent for service of process if the foreign limited liability company fails to maintain a registered agent. Note: failure to maintain a registered agent constitutes grounds to cancel the registration of the foreign limited liability company.

6. The address of the registered office in the jurisdiction organized. If none required, then the principal office address of the foreign limited liability company is:

1 Riverside Plaza, Columbus, Ohio 43215

Address (PO Box may only be used in conjunction with a physical street address) City/State/Zip

7. This application must include a current certificate of good standing/existence from the secretary of state or other similar official in the state of domicile. Such document should be dated within 60 calendar days from filing.

(Please see next page)

Name and address to return filed document:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, and Zip Code: \_\_\_\_\_

State of Missouri  
Creation - LLC/LP 3 Page(s)



In Affirmation thereof, the facts stated above are true and correct.

(The undersigned understands that false statements made in this filing are subject to the penalties provided under Section 575.040, RSMo)

*Randy G. Ryan*

Randy G. Ryan

June 19, 2012

Authorized Signature

Printed Name

Date

Authorized Signature

Printed Name

Date

Authorized Signature

Printed Name

Date

# Delaware

PAGE 1

*The First State*

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "TRANSOURCE MISSOURI, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TWENTIETH DAY OF JUNE, A.D. 2012.



5172027 8300

120753464

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 9657001

DATE: 06-20-12



# EXHIBIT 2

GENERATOR INTERCONNECTION AGREEMENT (GIA)

entered into by the

Southwest Power Pool, Inc.,

Transource Missouri, LLC

and

Osborn Wind Energy, LLC

entered into on the 15th day of July, 2016

**GEN-2015-005 (IFS-2015-001-04)**

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## GENERATOR INTERCONNECTION AGREEMENT

### THIS GENERATOR INTERCONNECTION AGREEMENT

("Agreement") is made and entered into this 15th day of July 2016, by and among Osborn Wind Energy, LLC, a limited liability company organized and existing under the laws of the State of Delaware ("Interconnection Customer" with a Generating Facility), Southwest Power Pool, Inc., a corporation organized and existing under the laws of the State of Arkansas ("Transmission Provider") and Transource Missouri, LLC, a limited liability company organized and existing under the laws of the State of Missouri ("Transmission Owner"). Interconnection Customer, Transmission Provider and Transmission Owner each may be referred to as a "Party" or collectively as the "Parties."

### RECITALS

**WHEREAS**, Transmission Provider functionally controls the operation of the Transmission System; and,

**WHEREAS**, Interconnection Customer intends to own, lease and/or control and operate the Generating Facility identified as a Generating Facility in Appendix C to this Agreement; and,

**WHEREAS**, Transmission Owner owns facilities to which the Generating Facility is to be interconnected and may be constructing facilities to allow the interconnection; and,

**WHEREAS**, Interconnection Customer, Transmission Provider and Transmission Owner have agreed to enter into this Agreement for the purpose of interconnecting the Generating Facility with the Transmission System;

**NOW, THEREFORE**, in consideration of and subject to the mutual covenants contained herein, it is agreed:

When used in this Generator Interconnection Agreement, terms with initial capitalization that are not defined in Article 1 shall have the meanings specified in the Article in which they are used or the Open Access Transmission Tariff (Tariff).

### ARTICLE 1. DEFINITIONS

**Adverse System Impact** shall mean the negative effects due to technical or operational limits on conductors or equipment being exceeded that may compromise the safety and reliability of the electric system.

**Affected System** shall mean an electric system other than the Transmission System that may be affected by the proposed interconnection.

**Affected System Operator** shall mean the entity that operates an Affected System.

**Affiliate** shall mean, with respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more

intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

**Ancillary Services** shall mean those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission System in accordance with Good Utility Practice.

**Applicable Laws and Regulations** shall mean all duly promulgated applicable federal, state and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority.

**Applicable Reliability Council** shall mean the reliability council applicable to the Transmission System to which the Generating Facility is directly interconnected.

**Applicable Reliability Standards** shall mean the requirements and guidelines of NERC, the Applicable Reliability Council, and the Control Area of the Transmission System to which the Generating Facility is directly interconnected.

**Base Case** shall mean the base case power flow, short circuit, and stability data bases used for the Interconnection Studies by the Transmission Provider.

**Breach** shall mean the failure of a Party to perform or observe any material term or condition of the Generator Interconnection Agreement.

**Breaching Party** shall mean a Party that is in Breach of the Generator Interconnection Agreement.

**Business Day** shall mean Monday through Friday, excluding Federal Holidays.

**Calendar Day** shall mean any day including Saturday, Sunday or a Federal Holiday.

**Clustering** shall mean the process whereby a group of Interconnection Requests is studied together, instead of serially, for the purpose of conducting Interconnection Studies.

**Commercial Operation** shall mean the status of a Generating Facility that has commenced generating electricity for sale, excluding electricity generated during Trial Operation.

**Commercial Operation Date** of a unit shall mean the date on which the Generating Facility commences Commercial Operation as agreed to by the Parties pursuant to Appendix E to the Generator Interconnection Agreement.

**Confidential Information** shall mean any confidential, proprietary or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy or compilation relating to the present or planned business of a Party, which is designated as confidential by the Party supplying the information, whether conveyed orally, electronically, in writing, through inspection, or otherwise.

**Control Area** shall mean an electrical system or systems bounded by interconnection metering and telemetry, capable of controlling generation to maintain its interchange schedule with other Control Areas and contributing to frequency regulation of the interconnection. A Control Area must be certified by the Applicable Reliability Council.

**Default** shall mean the failure of a Breaching Party to cure its Breach in accordance with Article 17 of the Generator Interconnection Agreement.

**Definitive Interconnection System Impact Study** shall mean an engineering study that evaluates the impact of the proposed interconnection on the safety and reliability of Transmission System and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility were interconnected without project modifications or system modifications, focusing on the Adverse System Impacts identified in a Preliminary Interconnection System Impact Study or that may be caused by the withdrawal or addition of an Interconnection Request, or to study potential impacts, including but not limited to those identified in the Scoping Meeting as described in the Generator Interconnection Procedures.

**Definitive Interconnection System Impact Study Agreement** shall mean the form of agreement contained in Appendix 3A of the Generator Interconnection Procedures for conducting the Definitive Interconnection System Impact Study.

**Definitive Interconnection System Impact Study Queue** shall mean a Transmission Provider separately maintained queue for valid Interconnection Requests for a Definitive Interconnection System Impact Study.

**Dispute Resolution** shall mean the procedure in Section 12 of the Tariff for resolution of a dispute between the Parties in which they will first attempt to resolve the dispute on an informal basis.

**Distribution System** shall mean the Transmission Owner's facilities and equipment that are not included in the Transmission System. The voltage levels at which Distribution Systems operate differ among areas.

**Distribution Upgrades** shall mean the additions, modifications, and upgrades to the Distribution System at or beyond the Point of Interconnection to facilitate interconnection of the Generating Facility and render the transmission service necessary to effect Interconnection Customer's wholesale sale of electricity in interstate commerce. Distribution Upgrades do not include Interconnection Facilities.

**Effective Date** shall mean the date on which the Generator Interconnection Agreement becomes effective upon execution by the Parties subject to acceptance by FERC, or if filed unexecuted, upon the date specified by FERC.

**Emergency Condition** shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of Transmission Provider, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to the Transmission System or the electric systems of others to which the Transmission System is directly connected; or (3) that,

in the case of Transmission Owner, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to Transmission Owner's Interconnection Facilities ;or (4) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided, that Interconnection Customer is not obligated by the Generator Interconnection Agreement to possess black start capability.

**Energy Resource Interconnection Service** shall mean an Interconnection Service that allows the Interconnection Customer to connect its Generating Facility to the Transmission System to be eligible to deliver the Generating Facility's electric output using the existing firm or nonfirm capacity of the Transmission System on an as available basis. Energy Resource Interconnection Service in and of itself does not convey transmission service.

**Engineering & Procurement (E&P) Agreement** shall mean an agreement that authorizes the Transmission Owner to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection in order to advance the implementation of the Interconnection Request.

**Environmental Law** shall mean Applicable Laws or Regulations relating to pollution or protection of the environment or natural resources.

**Federal Power Act** shall mean the Federal Power Act, as amended, 16 U.S.C. §§ 791a et seq.

**FERC** shall mean the Federal Energy Regulatory Commission (Commission) or its successor.

**Force Majeure** shall mean any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include acts of negligence or intentional wrongdoing by the Party claiming Force Majeure.

**Generating Facility** shall mean Interconnection Customer's device for the production of electricity identified in the Interconnection Request, but shall not include the Interconnection Customer's Interconnection Facilities.

**Generating Facility Capacity** shall mean the net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple energy production devices.

**Generator Interconnection Agreement (GIA)** shall mean the form of interconnection agreement applicable to an Interconnection Request pertaining to a Generating Facility that is included in the Transmission Provider's Tariff.

**Generator Interconnection Procedures (GIP)** shall mean the interconnection procedures applicable to an Interconnection Request pertaining to a Generating Facility that are included in the Transmission Provider's Tariff.

**Good Utility Practice** shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

**Governmental Authority** shall mean any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include Interconnection Customer, Transmission Provider, Transmission Owner or any Affiliate thereof.

**Hazardous Substances** shall mean any chemicals, materials or substances defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "hazardous constituents," "restricted hazardous materials," "extremely hazardous substances," "toxic substances," "radioactive substances," "contaminants," "pollutants," "toxic pollutants" or words of similar meaning and regulatory effect under any applicable Environmental Law, or any other chemical, material or substance, exposure to which is prohibited, limited or regulated by any applicable Environmental Law.

**Initial Synchronization Date** shall mean the date upon which the Generating Facility is initially synchronized and upon which Trial Operation begins.

**In-Service Date** shall mean the date upon which the Interconnection Customer reasonably expects it will be ready to begin use of the Transmission Owner's Interconnection Facilities to obtain back feed power.

**Interconnection Customer** shall mean any entity, including the Transmission Owner or any of the Affiliates or subsidiaries of either, that proposes to interconnect its Generating Facility with the Transmission System.

**Interconnection Customer's Interconnection Facilities** shall mean all facilities and equipment, as identified in Appendix A of the Generator Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Transmission System. Interconnection Customer's Interconnection Facilities are sole use facilities.



**Interconnection Facilities** shall mean the Transmission Owner's Interconnection Facilities and the Interconnection Customer's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Transmission System. Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades, Stand Alone Network Upgrades or Network Upgrades.

**Interconnection Facilities Study** shall mean a study conducted by the Transmission Provider or a third party consultant for the Interconnection Customer to determine a list of facilities (including Transmission Owner's Interconnection Facilities and Network Upgrades as identified in the Definitive Interconnection System Impact Study), the cost of those facilities, and the time required to interconnect the Generating Facility with the Transmission System. The scope of the study is defined in Section 8 of the Generator Interconnection Procedures.

**Interconnection Facilities Study Agreement** shall mean the form of agreement contained in Appendix 4 of the Generator Interconnection Procedures for conducting the Interconnection Facilities Study.

**Interconnection Facilities Study Queue** shall mean a Transmission Provider separately maintained queue for valid Interconnection Requests for an Interconnection Facilities Study.

**Interconnection Feasibility Study** shall mean a preliminary evaluation of the system impact and cost of interconnecting the Generating Facility to the Transmission System, the scope of which is described in Section 6 of the Generator Interconnection Procedures.

**Interconnection Feasibility Study Agreement** shall mean the form of agreement contained in Appendix 2 of the Generator Interconnection Procedures for conducting the Interconnection Feasibility Study.

**Interconnection Feasibility Study Queue** shall mean a Transmission Provider separately maintained queue for valid Interconnection Requests for an Interconnection Feasibility Study.

**Interconnection Queue Position** shall mean the order of a valid Interconnection Request within the Interconnection Facilities Study Queue, relative to all other pending valid Interconnection Requests within the Interconnection Facilities Study Queue, which is established based upon the requirements in Section 4.1.3 of the Generator Interconnection Procedures.

**Interconnection Request** shall mean an Interconnection Customer's request, in the form of Appendix 1 to the Generator Interconnection Procedures, in accordance with the Tariff, to interconnect a new Generating Facility, or to increase the capacity of, or make a Material Modification to the operating characteristics of, an existing Generating Facility that is interconnected with the Transmission System.

**Interconnection Service** shall mean the service provided by the Transmission Provider associated with interconnecting the Interconnection Customer's Generating Facility to the Transmission Provider's Transmission System and enabling it to receive electric energy and

capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of the Generator Interconnection Agreement and, if applicable, the Tariff.

**Interconnection Study** shall mean any of the following studies: the Interconnection Feasibility Study, the Preliminary Interconnection System Impact Study, the Definitive Interconnection System Impact Study and the Interconnection Facilities Study described in the Generator Interconnection Procedures.

**Interconnection Study Agreement** shall mean any of the following agreements: the Interconnection Feasibility Study Agreement, the Preliminary Interconnection System Impact Study Agreement, the Definitive Interconnection System Impact Study Agreement and the Interconnection Facilities Study Agreement described in the Generator Interconnection Procedures.

**IRS** shall mean the Internal Revenue Service.

**Joint Operating Committee** shall be a group made up of representatives from Interconnection Customer, Transmission Owner and the Transmission Provider to coordinate operating and technical considerations of Interconnection Service.

**Loss** shall mean any and all losses relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from another Party's performance, or non-performance of its obligations under the Generator Interconnection Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnifying Party.

**Material Modification** shall mean those modifications that have a material impact on the cost or timing of any Interconnection Request with a later Queue priority date.

**Metering Equipment** shall mean all metering equipment installed or to be installed at the Generating Facility pursuant to the Generator Interconnection Agreement at the metering points, including but not limited to instrument transformers, MWh-meters, data acquisition equipment, transducers, remote terminal unit, communications equipment, phone lines, and fiber optics.

**NERC** shall mean the North American Electric Reliability Corporation or its successor organization.

**Network Resource** shall mean any designated generating resource owned, purchased, or leased by a Network Customer under the Network Integration Transmission Service Tariff. Network Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis.

**Network Resource Interconnection Service** shall mean an Interconnection Service that allows the Interconnection Customer to integrate its Generating Facility with the Transmission System in a manner comparable to that in which the Transmission Owner integrates its

generating facilities to serve Native Load Customers as a Network Resource. Network Resource Interconnection Service in and of itself does not convey transmission service.

**Network Upgrades** shall mean the additions, modifications, and upgrades to the Transmission System required at or beyond the point at which the Interconnection Facilities connect to the Transmission System to accommodate the interconnection of the Generating Facility to the Transmission System.

**Notice of Dispute** shall mean a written notice of a dispute or claim that arises out of or in connection with the Generator Interconnection Agreement or its performance.

**Party or Parties** shall mean Transmission Provider, Transmission Owner, Interconnection Customer or any combination of the above.

**Point of Change of Ownership** shall mean the point, as set forth in Appendix A to the Generator Interconnection Agreement, where the Interconnection Customer's Interconnection Facilities connect to the Transmission Owner's Interconnection Facilities.

**Point of Interconnection** shall mean the point, as set forth in Appendix A to the Generator Interconnection Agreement, where the Interconnection Facilities connect to the Transmission System.

**Preliminary Interconnection System Impact Study** shall mean an engineering study that evaluates the impact of the proposed interconnection on the safety and reliability of Transmission System and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility were interconnected without project modifications or system modifications, focusing on the Adverse System Impacts identified in an Interconnection Feasibility Study or that may be caused by an Interconnection Request, or to study potential impacts, including but not limited to those identified in the Scoping Meeting as described in the Generator Interconnection Procedures.

**Preliminary Interconnection System Impact Study Agreement** shall mean the form of agreement contained in Appendix 3 of the Generator Interconnection Procedures for conducting the Preliminary Interconnection System Impact Study.

**Preliminary Interconnection System Impact Study Queue** shall mean a Transmission Provider separately maintained queue for valid Interconnection Requests for a Preliminary Interconnection System Impact Study.

**Previous Network Upgrade** shall mean a Network Upgrade that is needed for the interconnection of one or more Interconnection Customers' Generating Facilities, but is not the cost responsibility of the Interconnection Customer, subject to restudy, and which is identified in Appendix A of the Generator Interconnection Agreement.

**Queue** shall mean the Interconnection Feasibility Study Queue, the Preliminary Interconnection System Impact Study Queue, the Definitive Interconnection System Impact Study Queue, or the Interconnection Facilities Study Queue, as applicable.

**Reasonable Efforts** shall mean, with respect to an action required to be attempted or taken by a Party under the Generator Interconnection Agreement, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

**Scoping Meeting** shall mean the meeting between representatives of the Interconnection Customer, Transmission Owner and Transmission Provider conducted for the purpose of discussing alternative interconnection options, to exchange information including any transmission data and earlier study evaluations that would be reasonably expected to impact such interconnection options, to analyze such information, and to determine the potential feasible Points of Interconnection.

**Shared Network Upgrade** shall mean a Network Upgrade listed in Appendix A of the Generator Interconnection Agreement that is needed for the interconnection of multiple Interconnection Customers' Generating Facilities and which is the shared funding responsibility of such Interconnection Customers that may also benefit other Interconnection Customer(s) that are later identified as beneficiaries.

**Site Control** shall mean documentation reasonably demonstrating: (1) ownership of, a leasehold interest in, or a right to develop a site of sufficient size for the purpose of constructing the Generating Facility; (2) an option to purchase or acquire a leasehold site of sufficient size for such purpose; or (3) an exclusivity or other business relationship between Interconnection Customer and the entity having the right to sell, lease or grant Interconnection Customer the right to possess or occupy a site of sufficient size for such purpose.

**Small Generating Facility** shall mean a Generating Facility that has an aggregate net Generating Facility Capacity of no more than 2 MW.

**Stand Alone Network Upgrades** shall mean Network Upgrades that an Interconnection Customer may construct without affecting day-to-day operations of the Transmission System during their construction. The Transmission Provider, Transmission Owner and the Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify them in Appendix A to the Generator Interconnection Agreement.

**System Protection Facilities** shall mean the equipment, including necessary protection signal communications equipment, required to protect (1) the Transmission System from faults or other electrical disturbances occurring at the Generating Facility and (2) the Generating Facility from faults or other electrical system disturbances occurring on the Transmission System or on other delivery systems or other generating systems to which the Transmission System is directly connected.

**Tariff** shall mean the Transmission Provider's Tariff through which open access transmission service and Interconnection Service are offered, as filed with FERC, and as amended or supplemented from time to time, or any successor tariff.

**Transmission Owner** shall mean an entity that owns, leases or otherwise possesses an interest in the portion of the Transmission System at the Point of Interconnection and may be a Party to the Generator Interconnection Agreement to the extent necessary.

**Transmission Provider** shall mean the public utility (or its Designated Agent) that owns, controls, or operates transmission or distribution facilities used for the transmission of electricity in interstate commerce and provides transmission service under the Tariff. The term Transmission Provider should be read to include the Transmission Owner when the Transmission Owner is separate from the Transmission Provider.

**Transmission Owner's Interconnection Facilities** shall mean all facilities and equipment owned, controlled or operated by the Transmission Owner from the Point of Change of Ownership to the Point of Interconnection as identified in Appendix A to the Generator Interconnection Agreement, including any modifications, additions or upgrades to such facilities and equipment. Transmission Owner's Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades Stand Alone Network Upgrades or Network Upgrades.

**Transmission System** shall mean the facilities owned, controlled or operated by the Transmission Provider or Transmission Owner that are used to provide transmission service under the Tariff.

**Trial Operation** shall mean the period during which Interconnection Customer is engaged in on-site test operations and commissioning of the Generating Facility prior to Commercial Operation.

**Variable Energy Resource** shall mean a device for the production of electricity that is characterized by an energy source that: (1) is renewable; (2) cannot be stored by the facility owner or operator; and (3) has variability that is beyond the control of the facility owner or operator.

## **ARTICLE 2. EFFECTIVE DATE, TERM, AND TERMINATION**

**2.1 Effective Date.** This GIA shall become effective upon execution by the Parties subject to acceptance by FERC (if applicable), or if filed unexecuted, upon the date specified by FERC. Transmission Provider shall promptly file this GIA with FERC upon execution in accordance with Article 3.1, if required.

**2.2 Term of Agreement.** Subject to the provisions of Article 2.3, this GIA shall remain in effect for a period of ten (10) years from the Effective Date and shall be automatically renewed for each successive one-year period thereafter.

### **2.3 Termination Procedures.**

**2.3.1 Written Notice.** This GIA may be terminated by Interconnection Customer after giving Transmission Provider and Transmission Owner ninety (90) Calendar Days advance written notice, or by Transmission Provider notifying FERC after the Generating Facility permanently ceases Commercial Operation.

**2.3.2** If the Generating Facility fails to achieve Commercial Operation for three (3) consecutive years following the Commercial Operation Date, this GIA may be terminated by the Transmission Provider after giving the Interconnection Customer ninety (90) Calendar Days advance written notice. Where a portion of

the Generating Facility fails to achieve Commercial Operation for three (3) consecutive years following the Commercial Operation Date, the Transmission Provider shall issue a revised GIA to reflect the amount of the Generating Facility Capacity that achieved Commercial Operation. The revised GIA shall be consistent with the GIP in effect on the Effective Date of the GIA.

**2.3.3 Default.** Any Party may terminate this GIA in accordance with Article 17.

**2.3.4** Notwithstanding Articles 2.3.1, 2.3.2 and 2.3.3, no termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination, including the filing with FERC of a notice of termination of this GIA, which notice has been accepted for filing by FERC.

**2.4 Termination Costs.** If a Party elects to terminate this Agreement pursuant to Article 2.3 above, Interconnection Customer and Transmission Owner shall pay all costs incurred (including any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment) or charges assessed by any other Party, as of the date of such Party's receipt of such notice of termination, that are the responsibility of the Terminating Party under this GIA. In the event of termination by any Party, all Parties shall use Commercially Reasonable Efforts to mitigate the costs, damages and charges arising as a consequence of termination. Upon termination of this GIA, unless otherwise ordered or approved by FERC:

**2.4.1** With respect to any portion of Transmission Owner's Interconnection Facilities that have not yet been constructed or installed, Transmission Owner shall to the extent possible and with Interconnection Customer's authorization cancel any pending orders of, or return, any materials or equipment for, or contracts for construction of, such facilities; provided that in the event Interconnection Customer elects not to authorize such cancellation, Interconnection Customer shall assume all payment obligations with respect to such materials, equipment, and contracts, and Transmission Owner shall deliver such material and equipment, and, if necessary, assign such contracts, to Interconnection Customer as soon as practicable, at Interconnection Customer's expense. To the extent that Interconnection Customer has already paid Transmission Owner for any or all such costs of materials or equipment not taken by Interconnection Customer, Transmission Owner shall promptly refund such amounts to Interconnection Customer, less any costs, including penalties incurred by Transmission Owner to cancel any pending orders of or return such materials, equipment, or contracts.

If an Interconnection Customer terminates this GIA, it shall be responsible for all costs incurred in association with that Interconnection Customer's interconnection, including any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment, and other expenses including any Network Upgrades for which Transmission Owner has incurred expenses and has not been reimbursed by Interconnection Customer and the Interconnection Customer's allocated share of Network Upgrade(s) costs as calculated pursuant to

Section 4.2.5 of the GIP and as listed in Appendix A of this GIA which are required for service to other Interconnection Customer(s).

- 2.4.2** Transmission Owner may, at its option, retain any portion of such materials, equipment, or facilities that Interconnection Customer chooses not to accept delivery of, in which case Transmission Owner shall be responsible for all costs associated with procuring such materials, equipment, or facilities.
- 2.4.3** With respect to any portion of the Interconnection Facilities, and any other facilities already installed or constructed pursuant to the terms of this GIA, Interconnection Customer shall be responsible for all costs associated with the removal, relocation or other disposition or retirement of such materials, equipment, or facilities.
- 2.5** **Disconnection.** Upon termination of this GIA, the Parties will take all appropriate steps to disconnect the Generating Facility from the Transmission System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this GIA or such non-terminating Party otherwise is responsible for these costs under this GIA.
- 2.6** **Survival.** This GIA shall continue in effect after termination to the extent necessary to provide for final billings and payments and for costs incurred hereunder, including billings and payments pursuant to this GIA; to permit payments for any credits under this GIA; to permit the determination and enforcement of liability and indemnification obligations arising from acts or events that occurred while this GIA was in effect; and to permit each Party to have access to the lands of another Party pursuant to this GIA or other applicable agreements, to disconnect, remove or salvage its own facilities and equipment.

### **ARTICLE 3. REGULATORY FILINGS**

- 3.1** **Filing.** Transmission Provider shall file this GIA (and any amendment hereto) with the appropriate Governmental Authority, if required. Interconnection Customer may request that any information so provided be subject to the confidentiality provisions of Article 22. If Interconnection Customer has executed this GIA, or any amendment thereto, Interconnection Customer shall reasonably cooperate with Transmission Provider with respect to such filing and to provide any information reasonably requested by Transmission Provider needed to comply with applicable regulatory requirements.

### **ARTICLE 4. SCOPE OF SERVICE**

- 4.1** **Interconnection Product Options.** Interconnection Customer has selected the following (checked) type of Interconnection Service:

- 4.1.1** **Energy Resource Interconnection Service.**

- 4.1.1.1 The Product.** Energy Resource Interconnection Service allows Interconnection Customer to connect the Generating Facility to the

Transmission System and be eligible to deliver the Generating Facility's output using the existing firm or non-firm capacity of the Transmission System on an "as available" basis. To the extent Interconnection Customer wants to receive Energy Resource Interconnection Service, Transmission Provider shall construct facilities identified in Appendix A.

**4.1.1.2 Transmission Delivery Service Implications.** Under Energy Resource Interconnection Service, Interconnection Customer will be eligible to inject power from the Generating Facility into and deliver power across the Transmission System on an "as available" basis. The Interconnection Customer's ability to inject its Generating Facility output beyond the Point of Interconnection, therefore, will depend on the existing capacity of the Transmission System at such time as a transmission service request is made that would accommodate such delivery. The provision of Firm Point-To-Point Transmission Service or Network Integration Transmission Service may require the construction of additional Network Upgrades.

#### **4.1.2 Network Resource Interconnection Service.**

**4.1.2.1 The Product.** Transmission Provider must conduct the necessary studies and construct the Network Upgrades needed to integrate the Generating Facility in a manner comparable to that in which Transmission Owner integrates its generating facilities to serve Native Load Customers as all Network Resources. To the extent Interconnection Customer wants to receive Network Resource Interconnection Service, Transmission Owner shall construct the facilities identified in Appendix A to this GIA.

**4.1.2.2 Transmission Delivery Service Implications.** Network Resource Interconnection Service allows Interconnection Customer's Generating Facility to be designated by any Network Customer under the Tariff on the Transmission System as a Network Resource, up to the Generating Facility's full output, on the same basis as existing Network Resources interconnected to the Transmission System, and to be studied as a Network Resource on the assumption that such a designation will occur. Although Network Resource Interconnection Service does not convey a reservation of transmission service, any Network Customer under the Tariff can utilize its network service under the Tariff to obtain delivery of energy from the interconnected Interconnection Customer's Generating Facility in the same manner as it accesses Network Resources. A Generating Facility receiving Network Resource Interconnection Service may also be used to provide Ancillary Services after technical studies and/or periodic analyses are performed with respect to the Generating Facility's ability to provide any applicable Ancillary Services, provided that such studies and analyses have been or would be required in connection with the provision of such Ancillary Services by any existing Network Resource. However, if an Interconnection Customer's Generating Facility has not been designated as a Network Resource by any load, it cannot be required to provide Ancillary Services except to the



extent such requirements extend to all generating facilities that are similarly situated. The provision of Network Integration Transmission Service or Firm Point-To-Point Transmission Service may require additional studies and the construction of additional upgrades. Because such studies and upgrades would be associated with a request for delivery service under the Tariff, cost responsibility for the studies and upgrades would be in accordance with FERC's policy for pricing transmission delivery services.

Network Resource Interconnection Service does not necessarily provide Interconnection Customer with the capability to physically deliver the output of its Generating Facility to any particular load on the Transmission System without incurring congestion costs. In the event of transmission constraints on the Transmission System, Interconnection Customer's Generating Facility shall be subject to the applicable congestion management procedures in Transmission Provider's Transmission System in the same manner as Network Resources.

There is no requirement either at the time of study or interconnection, or at any point in the future, that Interconnection Customer's Generating Facility be designated as a Network Resource by a Network Service Customer under the Tariff or that Interconnection Customer identify a specific buyer (or sink). To the extent a Network Customer does designate the Generating Facility as a Network Resource, it must do so pursuant to Transmission Provider's Tariff.

Once an Interconnection Customer satisfies the requirements for obtaining Network Resource Interconnection Service, any future transmission service request for delivery from the Generating Facility within the Transmission System of any amount of capacity and/or energy, up to the amount initially studied, will not require that any additional studies be performed or that any further upgrades associated with such Generating Facility be undertaken, regardless of whether or not such Generating Facility is ever designated by a Network Customer as a Network Resource and regardless of changes in ownership of the Generating Facility. However, the reduction or elimination of congestion or redispatch costs may require additional studies and the construction of additional upgrades.

To the extent Interconnection Customer enters into an arrangement for long term transmission service for deliveries from the Generating Facility outside the Transmission System, such request may require additional studies and upgrades in order for Transmission Provider to grant such request.

**4.2 Provision of Service.** Transmission Provider shall provide Interconnection Service for the Generating Facility at the Point of Interconnection.

- 4.3 Performance Standards.** Each Party shall perform all of its obligations under this GIA in accordance with Applicable Laws and Regulations, Applicable Reliability Standards, and Good Utility Practice, and to the extent a Party is required or prevented or limited in taking any action by such regulations and standards, such Party shall not be deemed to be in Breach of this GIA for its compliance therewith. If such Party is a Transmission Provider or Transmission Owner, then that Party shall amend the GIA and submit the amendment to FERC for approval.
- 4.4 No Transmission Delivery Service.** The execution of this GIA does not constitute a request for, nor the provision of, any transmission delivery service under Transmission Provider's Tariff, and does not convey any right to deliver electricity to any specific customer or Point of Delivery.
- 4.5 Interconnection Customer Provided Services.** The services provided by Interconnection Customer under this GIA are set forth in Article 9.6 and Article 13.5.1. Interconnection Customer shall be paid for such services in accordance with Article 11.8.

## **ARTICLE 5. INTERCONNECTION FACILITIES ENGINEERING, PROCUREMENT, AND CONSTRUCTION**

- 5.1 Options.** Unless otherwise mutually agreed to between the Parties, Interconnection Customer shall select the In-Service Date, Initial Synchronization Date, and Commercial Operation Date; and either the Option To Build as described under Article 5.1.2 or the Negotiated Option described under Article 5.1.3 if the Interconnection Customer and the Transmission Owner cannot reach agreement under the Standard Option described under Article 5.1.1, for completion of Transmission Owner's Interconnection Facilities and Network Upgrades as set forth in Appendix A, Interconnection Facilities and Network Upgrades, and such dates and selected option, as applicable, shall be set forth in Appendix B, Milestones.
- 5.1.1 Standard Option.** Transmission Owner shall design, procure, and construct Transmission Owner's Interconnection Facilities and Network Upgrades, using Reasonable Efforts to complete Transmission Owner's Interconnection Facilities and Network Upgrades by the dates set forth in Appendix B, Milestones. Transmission Owner shall not be required to undertake any action which is inconsistent with its standard safety practices, its material and equipment specifications, its design criteria and construction procedures, its labor agreements, and Applicable Laws and Regulations. In the event Transmission Owner reasonably expects that it will not be able to complete Transmission Owner's Interconnection Facilities, and Network Upgrades by the specified dates, Transmission Owner shall promptly provide written notice to Interconnection Customer and shall undertake Reasonable Efforts to meet the earliest dates thereafter.
- 5.1.2 Option to Build.** If the dates designated by Interconnection Customer are not acceptable to Transmission Owner, Transmission Owner shall so notify Interconnection Customer within thirty (30) Calendar Days, and unless the Parties agree otherwise, Interconnection Customer shall have the option to assume

responsibility for the design, procurement and construction of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades on the dates specified in Article 5.1.1. Transmission Owner and Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify such Stand Alone Network Upgrades in Appendix A. Except for Stand Alone Network Upgrades, Interconnection Customer shall have no right to construct Network Upgrades under this option.

**5.1.3 Negotiated Option.** If Interconnection Customer elects not to exercise its option under Article 5.1.2, Option to Build, Interconnection Customer shall so notify Transmission Provider and Transmission Owner within thirty (30) Calendar Days, and the Parties shall in good faith attempt to negotiate terms and conditions (including revision of the specified dates and liquidated damages, the provision of incentives or the procurement and construction of a portion of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades by Interconnection Customer) pursuant to which Transmission Owner is responsible for the design, procurement and construction of Transmission Owner's Interconnection Facilities and Network Upgrades. If the Parties are unable to reach agreement on such terms and conditions, Transmission Owner shall assume responsibility for the design, procurement and construction of Transmission Owner's Interconnection Facilities and Network Upgrades pursuant to 5.1.1, Standard Option.

**5.2 General Conditions Applicable to Option to Build.** If Interconnection Customer assumes responsibility for the design, procurement and construction of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades,

- (1) Interconnection Customer shall engineer, procure equipment, and construct Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades (or portions thereof) using Good Utility Practice and using standards and specifications provided in advance by Transmission Owner;
- (2) Interconnection Customer's engineering, procurement and construction of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades shall comply with all requirements of law to which Transmission Provider would be subject in the engineering, procurement or construction of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades;
- (3) Transmission Owner shall review and approve the engineering design, equipment acceptance tests, and the construction of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades;
- (4) Prior to commencement of construction, Interconnection Customer shall provide to Transmission Provider and Transmission Owner a schedule for construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades, and shall promptly respond to requests for information from Transmission Provider and Transmission Owner;

- (5) At any time during construction, Transmission Owner shall have the right to gain unrestricted access to Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades and to conduct inspections of the same;
- (6) At any time during construction, should any phase of the engineering, equipment procurement, or construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades not meet the standards and specifications provided by Transmission Owner, Interconnection Customer shall be obligated to remedy deficiencies in that portion of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades;
- (7) Interconnection Customer shall indemnify Transmission Provider and Transmission Owner for claims arising from Interconnection Customer's construction of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades under the terms and procedures applicable to Article 18.1 Indemnity;
- (8) The Interconnection Customer shall transfer control of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades to Transmission Provider;
- (9) Unless Parties otherwise agree, Interconnection Customer shall transfer ownership of Transmission Owner's Interconnection Facilities and Stand-Alone Network Upgrades to Transmission Owner not later than the Commercial Operation Date;
- (10) Transmission Owner shall approve and accept for operation and maintenance Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades to the extent engineered, procured, and constructed in accordance with this Article 5.2; and
- (11) Interconnection Customer shall deliver to Transmission Owner "as-built" drawings, information, and any other documents that are reasonably required by Transmission Owner to assure that the Interconnection Facilities and Stand-Alone Network Upgrades are built to the standards and specifications required by Transmission Provider.

**5.3 Liquidated Damages.** The actual damages to Interconnection Customer, in the event Transmission Owner's Interconnection Facilities or Network Upgrades are not completed by the dates designated by Interconnection Customer and accepted by Transmission Owner pursuant to subparagraph 5.1.3, above, may include Interconnection Customer's fixed operation and maintenance costs and lost opportunity costs. Such actual damages are uncertain and impossible to determine at this time. Because of such uncertainty, any liquidated damages paid by Transmission Owner to Interconnection Customer in the event that Transmission Owner does not complete any portion of Transmission Owner's Interconnection Facilities or Network Upgrades by the applicable dates, shall be an amount equal to ½ of 1 percent per day of the actual cost of Transmission Owner's

Interconnection Facilities and Network Upgrades, in the aggregate, for which Transmission Owner has assumed responsibility to design, procure and construct.

However, in no event shall the total liquidated damages exceed 20 percent of the actual cost of Transmission Owner's Interconnection Facilities and Network Upgrades for which Transmission Owner has assumed responsibility to design, procure, and construct. The foregoing payments will be made by Transmission Owner to Interconnection Customer as just compensation for the damages caused to Interconnection Customer, 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 GIA. Liquidated damages, when the Parties agree to them, are the exclusive remedy for the Transmission Owner's failure to meet its schedule.

No liquidated damages shall be paid to Interconnection Customer if: (1) Interconnection Customer is not ready to commence use of Transmission Owner's Interconnection Facilities or Network Upgrades to take the delivery of power for the Generating Facility's Trial Operation or to export power from the Generating Facility on the specified dates, unless Interconnection Customer would have been able to commence use of Transmission Owner's Interconnection Facilities or Network Upgrades to take the delivery of power for Generating Facility's Trial Operation or to export power from the Generating Facility, but for Transmission Owner's delay; (2) Transmission Owner's failure to meet the specified dates is the result of the action or inaction of Interconnection Customer or any other Interconnection Customer who has entered into a GIA with Transmission Owner or any cause beyond Transmission Owner's reasonable control or reasonable ability to cure; (3) the Interconnection Customer has assumed responsibility for the design, procurement and construction of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades; or (4) the Parties have otherwise agreed.

**5.4 Power System Stabilizers.** The Interconnection Customer shall procure, install, maintain and operate Power System Stabilizers in accordance with the guidelines and procedures established by the Applicable Reliability Council. Transmission Provider reserves the right to reasonably establish minimum acceptable settings for any installed Power System Stabilizers, subject to the design and operating limitations of the Generating Facility. If the Generating Facility's Power System Stabilizers are removed from service or not capable of automatic operation, Interconnection Customer shall immediately notify Transmission Owner's system operator, or its designated representative. The requirements of this paragraph shall not apply to wind generators.

**5.5 Equipment Procurement.** If responsibility for construction of Transmission Owner's Interconnection Facilities or Network Upgrades is to be borne by Transmission Owner, then Transmission Owner shall commence design of Transmission Owner's Interconnection Facilities or Network Upgrades and procure necessary equipment as soon as practicable after all of the following conditions are satisfied, unless the Parties otherwise agree in writing:

**5.5.1** Transmission Provider has completed the Interconnection Facilities Study pursuant to the Interconnection Facilities Study Agreement;

- 5.5.2** Transmission Owner has received written authorization to proceed with design and procurement from Interconnection Customer by the date specified in Appendix B, Milestones; and
- 5.5.3** Interconnection Customer has provided security to Transmission Provider in accordance with Article 11.7 by the dates specified in Appendix B, Milestones.
- 5.6 Construction Commencement.** Transmission Owner shall commence construction of Transmission Owner's Interconnection Facilities and Network Upgrades for which it is responsible as soon as practicable after the following additional conditions are satisfied:
- 5.6.1** Approval of the appropriate Governmental Authority has been obtained for any facilities requiring regulatory approval;
- 5.6.2** Necessary real property rights and rights-of-way have been obtained, to the extent required for the construction of a discrete aspect of Transmission Owner's Interconnection Facilities and Network Upgrades;
- 5.6.3** Transmission Owner has received written authorization to proceed with construction from Interconnection Customer by the date specified in Appendix B, Milestones; and
- 5.6.4** Interconnection Customer has provided security to Transmission Provider in accordance with Article 11.7 by the dates specified in Appendix B, Milestones.
- 5.7 Work Progress.** The Parties will keep each other advised periodically as to the progress of their respective design, procurement and construction efforts. Parties may, at any time, request a progress report from other Parties. If, at any time, Interconnection Customer determines that the completion of Transmission Owner's Interconnection Facilities and Network Upgrades will not be required until after the specified In-Service Date, Interconnection Customer will provide written notice to Transmission Provider and Transmission Owner of such later date upon which the completion of Transmission Owner's Interconnection Facilities and Network Upgrades will be required.
- 5.8 Information Exchange.** As soon as reasonably practicable after the Effective Date, the Parties shall exchange information regarding the design and compatibility of the Parties' Interconnection Facilities and compatibility of the Interconnection Facilities with the Transmission System, and shall work diligently and in good faith to make any necessary design changes.
- 5.9 Limited Operation.** If any of Transmission Owner's Interconnection Facilities or Network Upgrades are not reasonably expected to be completed prior to the Commercial Operation Date of the Generating Facility, Transmission Provider shall, upon the request and at the expense of Interconnection Customer, perform operating studies on a timely basis to determine the extent to which the Generating Facility and Interconnection Customer's Interconnection Facilities may operate prior to the completion of Transmission Owner's Interconnection Facilities or Network Upgrades consistent with Applicable Laws and Regulations, Applicable Reliability Standards, Good Utility

Practice, and this GIA ("Limited Operation"). Transmission Owner shall permit Interconnection Customer to operate the Generating Facility and Interconnection Customer's Interconnection Facilities under Limited Operation in accordance with the results of such studies performed by Transmission Provider.

**5.10 Interconnection Customer's Interconnection Facilities ('ICIF').** Interconnection Customer shall, at its expense, design, procure, construct, own and install the ICIF, as set forth in Appendix A, Interconnection Facilities, Network Upgrades and Distribution Upgrades.

**5.10.1 Interconnection Customer's Interconnection Facility Specifications.** Interconnection Customer shall submit initial specifications for the ICIF, including System Protection Facilities, to Transmission Owner at least one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date; and final specifications for review and comment at least ninety (90) Calendar Days prior to the Initial Synchronization Date. Transmission Owner shall review such specifications to ensure that the ICIF are compatible with the technical specifications, operational control, and safety requirements of Transmission Owner and comment on such specifications within thirty (30) Calendar Days of Interconnection Customer's submission. All specifications provided hereunder shall be deemed confidential.

**5.10.2 Transmission Owner's Review.** Transmission Owner's review of Interconnection Customer's final specifications shall not be construed as confirming, endorsing, or providing a warranty as to the design, fitness, safety, durability or reliability of the Generating Facility, or the ICIF. Interconnection Customer shall make such changes to the ICIF as may reasonably be required by Transmission Owner, in accordance with Good Utility Practice, to ensure that the ICIF are compatible with the technical specifications, operational control, and safety requirements of Transmission Owner.

**5.10.3 ICIF Construction.** The ICIF shall be designed and constructed in accordance with Good Utility Practice. Within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Parties agree on another mutually acceptable deadline, Interconnection Customer shall deliver to Transmission Owner "as-built" drawings, information and documents for the ICIF, such as: a one-line diagram, a site plan showing the Generating Facility and the ICIF, plan and elevation drawings showing the layout of the ICIF, a relay functional diagram, relaying AC and DC schematic wiring diagrams and relay settings for all facilities associated with Interconnection Customer's step-up transformers, the facilities connecting the Generating Facility to the step-up transformers and the ICIF, and the impedances (determined by factory tests) for the associated step-up transformers and the Generating Facility. The Interconnection Customer shall provide Transmission Owner specifications for the excitation system, automatic voltage regulator, Generating Facility control and protection settings, transformer tap settings, and communications, if applicable.

**5.10.4 Updated Information Submission by Interconnection Customer.** The updated information submission by the Interconnection Customer, including manufacturer information, shall occur no later than one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date. Interconnection Customer shall submit a completed copy of the Generating Facility data requirements contained in Appendix 1 to the GIP. It shall also include any additional information provided to Transmission Provider for the Interconnection Feasibility and Interconnection Facilities Studies. Information in this submission shall be the most current Generating Facility design or expected performance data. Information submitted for stability models shall be compatible with Transmission Provider standard models. If there is no compatible model, the Interconnection Customer will work with a consultant mutually agreed to by the Parties to develop and supply a standard model and associated information.

If the Interconnection Customer's data is materially different from what was originally provided to Transmission Provider pursuant to the Interconnection Study agreements between Transmission Provider and Interconnection Customer, then Transmission Provider will conduct appropriate studies to determine the impact on the Transmission System based on the actual data submitted pursuant to this Article 5.10.4. The Interconnection Customer shall not begin Trial Operation until such studies are completed.

**5.10.5 Information Supplementation.** Prior to the Commercial Operation Date, or as soon as possible thereafter, the Parties shall supplement their information submissions described above in this Article 5 with any and all “as-built” Generating Facility information or “as-tested” performance information that differs from the initial submissions or, alternatively, written confirmation that no such differences exist. The Interconnection Customer shall conduct tests on the Generating Facility as required by Good Utility Practice such as an open circuit “step voltage” test on the Generating Facility to verify proper operation of the Generating Facility's automatic voltage regulator.

Unless otherwise agreed, the test conditions shall include: (1) Generating Facility at synchronous speed; (2) automatic voltage regulator on and in voltage control mode; and (3) a five percent (5 percent) change in Generating Facility terminal voltage initiated by a change in the voltage regulators reference voltage. Interconnection Customer shall provide validated test recordings showing the responses of Generating Facility terminal and field voltages. In the event that direct recordings of these voltages is impractical, recordings of other voltages or currents that mirror the response of the Generating Facility's terminal or field voltage are acceptable if information necessary to translate these alternate quantities to actual Generating Facility terminal or field voltages is provided. Generating Facility testing shall be conducted and results provided to the Transmission Provider for each individual generating unit in a station.



Subsequent to the Commercial Operation Date, the Interconnection Customer shall provide Transmission Owner and Transmission Provider any information changes due to equipment replacement, repair, or adjustment. Transmission Owner shall provide the Interconnection Customer and Transmission Provider any information changes due to equipment replacement, repair or adjustment in the directly connected substation or any adjacent Transmission Owner-owned substation that may affect the Interconnection Customer's Interconnection Facilities equipment ratings, protection or operating requirements. The Parties shall provide such information no later than thirty (30) Calendar Days after the date of the equipment replacement, repair or adjustment.]

- 5.11 Transmission Owner's Interconnection Facilities Construction.** Transmission Owner's Interconnection Facilities and Network Upgrades shall be designed and constructed in accordance with Good Utility Practice. Upon request, within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Parties agree on another mutually acceptable deadline, Transmission Owner shall deliver to Interconnection Customer the following "as-built" drawings, information and documents for Transmission Owner's Interconnection Facilities and Network Upgrades [include appropriate drawings and relay diagrams].

Transmission Owner will obtain control of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades upon completion of such facilities.

- 5.12 Access Rights.** Upon reasonable notice and supervision by a Party, and subject to any required or necessary regulatory approvals, a Party ("Granting Party") shall furnish at no cost to any other Party ("Access Party") any rights of use, licenses, rights of way and easements with respect to lands owned or controlled by the Granting Party, its agents (if allowed under the applicable agency agreement), or any Affiliate, that are necessary to enable the Access Party to obtain ingress and egress to construct, operate, maintain, repair, test (or witness testing), inspect, replace or remove facilities and equipment to: (i) interconnect the Generating Facility with the Transmission System; (ii) operate and maintain the Generating Facility, the Interconnection Facilities and the Transmission System; and (iii) disconnect or remove the Access Party's facilities and equipment upon termination of this GIA. In exercising such licenses, rights of way and easements, the Access Party shall not unreasonably disrupt or interfere with normal operation of the Granting Party's business and shall adhere to the safety rules and procedures established in advance, as may be changed from time to time, by the Granting Party and provided to the Access Party.

- 5.13 Lands of Other Property Owners.** If any part of Transmission Owner's Interconnection Facilities and/or Network Upgrades is to be installed on property owned by persons other than Interconnection Customer or Transmission Owner, Transmission Owner shall at Interconnection Customer's expense use efforts, similar in nature and extent to those that it typically undertakes on its own behalf or on behalf of its Affiliates, including use of its eminent domain authority, and to the extent consistent with state law, to procure from such persons any rights of use, licenses, rights of way and easements that are necessary to

construct, operate, maintain, test, inspect, replace or remove Transmission Owner's Interconnection Facilities and/or Network Upgrades upon such property.

**5.14 Permits.** Transmission Provider or Transmission Owner and Interconnection Customer shall cooperate with each other in good faith in obtaining all permits, licenses, and authorizations that are necessary to accomplish the interconnection in compliance with Applicable Laws and Regulations. With respect to this paragraph, Transmission Provider or Transmission Owner shall provide permitting assistance to Interconnection Customer comparable to that provided to Transmission Provider's own, or an Affiliate's generation.

**5.15 Early Construction of Base Case Facilities.** Interconnection Customer may request Transmission Owner to construct, and Transmission Owner shall construct, using Reasonable Efforts to accommodate Interconnection Customer's In-Service Date, all or any portion of any Network Upgrades required for Interconnection Customer to be interconnected to the Transmission System which are included in the Base Case of the Facilities Study for Interconnection Customer, and which also are required to be constructed for another Interconnection Customer, but where such construction is not scheduled to be completed in time to achieve Interconnection Customer's In-Service Date.

**5.16 Suspension.**

**5.16.1** Interconnection Customer, upon written notice to Transmission Provider and Transmission Owner, may suspend, for a period not to exceed 18 months, work by Transmission Owner associated with the construction and installation of Transmission Owner's Interconnection Facilities and/or Network Upgrades required under this GIA under the following terms and conditions,

- i. Construction of Network Upgrades that are required to provide Interconnection Service to other Generating Facilities and for which Interconnection Customer shares cost responsibility cannot be suspended pursuant to this Article 5.16.
- ii. If the suspension period begins later than or extends beyond six months following the Effective Date of the GIA, the Interconnection Customer shall provide to the Transmission Provider security in the form described under Article 11.7 in an amount equal to the greater of:
  - a. the Interconnection Customer's allocated share of Network Upgrade(s) as calculated pursuant to Section 4.2.5 of the GIP and as identified in Appendix A of this GIA unless previously provided under Section 8.9 of the GIP; or
  - b. \$5,000,000 if the Generating Facility is greater than or equal to 100 MW; or
  - c. \$2,500,000 if the Generating Facility is greater than or equal to 50 MW and less than 100 MW; or
  - d. \$1,000,000 if the Generating Facility is less than 50 MW; or
  - e. \$500,000 if the Generating Facility is less than or equal to 2 MW.

- iii. In the event that this GIA is terminated under this Article 5.16, the Transmission Provider shall retain the security provided pursuant to Article 5.16.1.ii in the amount required to meet Interconnection Customer's obligations pursuant to this GIA. Any difference between the security provided and Interconnection Customer's obligations shall be settled pursuant to Article 12.
- iv. In the event Interconnection Customer suspends work by Transmission Owner required under this GIA pursuant to this Article 5.16 and has not requested Transmission Owner to resume the work required under this GIA on or before the expiration of 18 months from the date of suspension, this GIA shall be deemed terminated unless Article 16 applies.
- v. In the event Interconnection Customer suspends work by Transmission Owner required under this GIA pursuant to this Article 5.16 and has not complied requirements of Article 5.16.1.ii on or before the later of the expiration of 6 months following the effective date of the GIA or the date the suspension is requested, this GIA shall be deemed terminated by the Interconnection Customer.
- vi. In the event Interconnection Customer suspends work by Transmission Owner required under this GIA pursuant to this Article 5.16, the Transmission System shall be left in a safe and reliable condition in accordance with Good Utility Practice and Transmission Owner's safety and reliability criteria. Interconnection Customer shall be responsible for all reasonable and necessary costs which Transmission Owner and Transmission Provider (i) have incurred pursuant to this GIA prior to the suspension and (ii) incur in suspending such work, including any costs incurred to perform such work as may be necessary to ensure the safety of persons and property and the integrity of the Transmission System during such suspension and, if applicable, any costs incurred in connection with the cancellation or suspension of material, equipment and labor contracts which Transmission Owner cannot reasonably avoid; provided, however, that prior to canceling or suspending any such material, equipment or labor contract, Transmission Owner shall obtain Interconnection Customer's authorization to do so. Transmission Owner and Transmission Provider shall invoice Interconnection Customer for such costs pursuant to Article 12 and shall use due diligence to minimize its costs.
- vii. In the event Interconnection Customer provides written notice to resume work for those facilities for which work has been suspended pursuant to this Article 5.16.1, the Interconnection Customer shall receive a refund, including interest, of any payments provided in accordance with Article 5.16.1.ii in excess of the sum of Interconnection Customer's allocated share of Network Upgrade(s) costs and any costs incurred under Article 5.16.1.vi within 30 days of the date of such notice.

**5.16.2 Exemptions.** The Interconnection Customer shall be exempt from the payments described under Article 5.16.1.ii.b, 5.16.1.ii.c and 5.16.1.ii.d if the following occurs or Suspension is requested for the following reasons:

- i. Construction of a Network Upgrade or the Generating Facility is prevented by order of a Governmental Authority; or
- ii. Transmission Provider determines through an Interconnection Study that the Suspension does not qualify as a modification that has an impact on the cost or timing of any Interconnection Request with an equal or later Queue priority date (Material Modification); or
- iii. Transmission Owner or Transmission Provider determines that a Force Majeure event prevents construction of a Network Upgrade.

## **5.17 Taxes.**

**5.17.1 Interconnection Customer Payments Not Taxable.** The Parties intend that all payments or property transfers made by Interconnection Customer to Transmission Owner for the installation of Transmission Owner's Interconnection Facilities and the Network Upgrades shall be non-taxable, either as contributions to capital, or as an advance, in accordance with the Internal Revenue Code and any applicable state income tax laws and shall not be taxable as contributions in aid of construction or otherwise under the Internal Revenue Code and any applicable state income tax laws.

**5.17.2 Representations and Covenants.** In accordance with IRS Notice 2001-82 and IRS Notice 88-129, Interconnection Customer represents and covenants that (i) ownership of the electricity generated at the Generating Facility will pass to another party prior to the transmission of the electricity on the Transmission System, (ii) for income tax purposes, the amount of any payments and the cost of any property transferred to Transmission Owner for Transmission Owner's Interconnection Facilities will be capitalized by Interconnection Customer as an intangible asset and recovered using the straight-line method over a useful life of twenty (20) years, and (iii) any portion of Transmission Owner's Interconnection Facilities that is a "dual-use intertie," within the meaning of IRS Notice 88-129, is reasonably expected to carry only a de minimis amount of electricity in the direction of the Generating Facility. For this purpose, "de minimis amount" means no more than 5 percent of the total power flows in both directions, calculated in accordance with the "5 percent test" set forth in IRS Notice 88-129. This is not intended to be an exclusive list of the relevant conditions that must be met to conform to IRS requirements for non-taxable treatment.

At Transmission Owner's request, Interconnection Customer shall provide Transmission Owner with a report from an independent engineer confirming its representation in clause (iii), above. Transmission Owner represents and covenants that the cost of Transmission Owner's Interconnection Facilities paid

for by Interconnection Customer will have no net effect on the base upon which rates are determined.

**5.17.3 Indemnification for the Cost Consequences of Current Tax Liability Imposed Upon the Transmission Owner.** Notwithstanding Article 5.17.1, Interconnection Customer shall protect, indemnify and hold harmless Transmission Owner from the cost consequences of any current tax liability imposed against Transmission Owner as the result of payments or property transfers made by Interconnection Customer to Transmission Owner under this GIA for Interconnection Facilities, as well as any interest and penalties, other than interest and penalties attributable to any delay caused by Transmission Owner.

Transmission Owner shall not include a gross-up for the cost consequences of any current tax liability in the amounts it charges Interconnection Customer under this GIA unless (i) Transmission Owner has determined, in good faith, that the payments or property transfers made by Interconnection Customer to Transmission Owner should be reported as income subject to taxation or (ii) any Governmental Authority directs Transmission Owner to report payments or property as income subject to taxation; provided, however, that Transmission Owner may require Interconnection Customer to provide security for Interconnection Facilities, in a form reasonably acceptable to Transmission Owner (such as a parental guarantee or a letter of credit), in an amount equal to the cost consequences of any current tax liability under this Article 5.17. Interconnection Customer shall reimburse Transmission Owner for such costs on a fully grossed-up basis, in accordance with Article 5.17.4, within thirty (30) Calendar Days of receiving written notification from Transmission Owner of the amount due, including detail about how the amount was calculated.

The indemnification obligation shall terminate at the earlier of (1) the expiration of the ten year testing period and the applicable statute of limitation, as it may be extended by Transmission Owner upon request of the IRS, to keep these years open for audit or adjustment, or (2) the occurrence of a subsequent taxable event and the payment of any related indemnification obligations as contemplated by this Article 5.17.

**5.17.4 Tax Gross-Up Amount.** Interconnection Customer's liability for the cost consequences of any current tax liability under this Article 5.17 shall be calculated on a fully grossed-up basis. Except as may otherwise be agreed to by the Parties, this means that Interconnection Customer will pay Transmission Owner, in addition to the amount paid for the Interconnection Facilities, and Network Upgrades, an amount equal to (1) the current taxes imposed on Transmission Owner ("Current Taxes") on the excess of (a) the gross income realized by Transmission Owner as a result of payments or property transfers made by Interconnection Customer to Transmission Owner under this GIA (without regard to any payments under this Article 5.17) (the "Gross Income Amount") over (b) the present value of future tax deductions for depreciation that will be available as a result of such payments or property transfers (the "Present

Value Depreciation Amount"), plus (2) an additional amount sufficient to permit Transmission Owner to receive and retain, after the payment of all Current Taxes, an amount equal to the net amount described in clause (1).

For this purpose, (i) Current Taxes shall be computed based on Transmission Owner's composite federal and state tax rates at the time the payments or property transfers are received and Transmission Owner will be treated as being subject to tax at the highest marginal rates in effect at that time (the "Current Tax Rate"), and (ii) the Present Value Depreciation Amount shall be computed by discounting Transmission Owner's anticipated tax depreciation deductions as a result of such payments or property transfers by Transmission Owner's current weighted average cost of capital. Thus, the formula for calculating Interconnection Customer's liability to Transmission Owner pursuant to this Article 5.17.4 can be expressed as follows:  $(\text{Current Tax Rate} \times (\text{Gross Income Amount} - \text{Present Value of Tax Depreciation})) / (1 - \text{Current Tax Rate})$ . Interconnection Customer's estimated tax liability in the event taxes are imposed shall be stated in Appendix A, Interconnection Facilities, Network Upgrades and Distribution Upgrades.

**5.17.5 Private Letter Ruling or Change or Clarification of Law.** At Interconnection Customer's request and expense, Transmission Owner shall file with the IRS a request for a private letter ruling as to whether any property transferred or sums paid, or to be paid, by Interconnection Customer to Transmission Owner under this GIA are subject to federal income taxation. Interconnection Customer will prepare the initial draft of the request for a private letter ruling, and will certify under penalties of perjury that all facts represented in such request are true and accurate to the best of Interconnection Customer's knowledge. Transmission Owner and Interconnection Customer shall cooperate in good faith with respect to the submission of such request.

Transmission Owner shall keep Interconnection Customer fully informed of the status of such request for a private letter ruling and shall execute either a privacy act waiver or a limited power of attorney, in a form acceptable to the IRS, that authorizes Interconnection Customer to participate in all discussions with the IRS regarding such request for a private letter ruling. Transmission Owner shall allow Interconnection Customer to attend all meetings with IRS officials about the request and shall permit Interconnection Customer to prepare the initial drafts of any follow-up letters in connection with the request.

**5.17.6 Subsequent Taxable Events.** If, within 10 years from the date on which the relevant Transmission Owner's Interconnection Facilities are placed in service, (i) Interconnection Customer Breaches the covenants contained in Article 5.17.2, (ii) a "disqualification event" occurs within the meaning of IRS Notice 88-129, or (iii) this GIA terminates and Transmission Owner retains ownership of the Interconnection Facilities and Network Upgrades, Interconnection Customer shall pay a tax gross-up for the cost consequences of any current tax liability imposed on Transmission Owner, calculated using the methodology described in Article 5.17.4 and in accordance with IRS Notice 90-60.

**5.17.7 Contests.** In the event any Governmental Authority determines that Transmission Owner's receipt of payments or property constitutes income that is subject to taxation, Transmission Owner shall notify Interconnection Customer, in writing, within thirty (30) Calendar Days of receiving notification of such determination by a Governmental Authority. Upon the timely written request by Interconnection Customer and at Interconnection Customer's sole expense, Transmission Owner may appeal, protest, seek abatement of, or otherwise oppose such determination. Upon Interconnection Customer's written request and sole expense, Transmission Owner may file a claim for refund with respect to any taxes paid under this Article 5.17, whether or not it has received such a determination. Transmission Owner reserves the right to make all decisions with regard to the prosecution of such appeal, protest, abatement or other contest, including the selection of counsel and compromise or settlement of the claim, but Transmission Owner shall keep Interconnection Customer informed, shall consider in good faith suggestions from Interconnection Customer about the conduct of the contest, and shall reasonably permit Interconnection Customer or an Interconnection Customer representative to attend contest proceedings.

Interconnection Customer shall pay to Transmission Owner on a periodic basis, as invoiced by Transmission Owner, Transmission Owner's documented reasonable costs of prosecuting such appeal, protest, abatement or other contest. At any time during the contest, Transmission Owner may agree to a settlement either with Interconnection Customer's consent or after obtaining written advice from nationally-recognized tax counsel, selected by Transmission Owner, but reasonably acceptable to Interconnection Customer, that the proposed settlement represents a reasonable settlement given the hazards of litigation. Interconnection Customer's obligation shall be based on the amount of the settlement agreed to by Interconnection Customer, or if a higher amount, so much of the settlement that is supported by the written advice from nationally-recognized tax counsel selected under the terms of the preceding sentence. The settlement amount shall be calculated on a fully grossed-up basis to cover any related cost consequences of the current tax liability. Any settlement without Interconnection Customer's consent or such written advice will relieve Interconnection Customer from any obligation to indemnify Transmission Owner for the tax at issue in the contest.

**5.17.8 Refund.** In the event that (a) a private letter ruling is issued to Transmission Owner which holds that any amount paid or the value of any property transferred by Interconnection Customer to Transmission Owner under the terms of this GIA is not subject to federal income taxation, (b) any legislative change or administrative announcement, notice, ruling or other determination makes it reasonably clear to Transmission Owner in good faith that any amount paid or the value of any property transferred by Interconnection Customer to Transmission Owner under the terms of this GIA is not taxable to Transmission Owner, (c) any abatement, appeal, protest, or other contest results in a determination that any payments or transfers made by Interconnection Customer to Transmission Owner are not subject to federal income tax, or (d) if Transmission Owner receives a

refund from any taxing authority for any overpayment of tax attributable to any payment or property transfer made by Interconnection Customer to Transmission Owner pursuant to this GIA, Transmission Owner shall promptly refund to Interconnection Customer the following:

- (i) any payment made by Interconnection Customer under this Article 5.17 for taxes that is attributable to the amount determined to be non-taxable, together with interest thereon,
- (ii) interest on any amount paid by Interconnection Customer to Transmission Owner for such taxes which Transmission Owner did not submit to the taxing authority, calculated in accordance with the methodology set forth in FERC's regulations at 18 CFR §35.19a(a)(2)(iii) from the date payment was made by Interconnection Customer to the date Transmission Owner refunds such payment to Interconnection Customer, and
- (iii) with respect to any such taxes paid by Transmission Owner, any refund or credit Transmission Owner receives or to which it may be entitled from any Governmental Authority, interest (or that portion thereof attributable to the payment described in clause (i), above) owed to Transmission Owner for such overpayment of taxes (including any reduction in interest otherwise payable by Transmission Owner to any Governmental Authority resulting from an offset or credit); provided, however, that Transmission Owner will remit such amount promptly to Interconnection Customer only after and to the extent that Transmission Owner has received a tax refund, credit or offset from any Governmental Authority for any applicable overpayment of income tax related to Transmission Owner's Interconnection Facilities.

The intent of this provision is to leave the Parties, to the extent practicable, in the event that no taxes are due with respect to any payment for Interconnection Facilities and Network Upgrades hereunder, in the same position they would have been in had no such tax payments been made.

**5.17.9 Taxes Other Than Income Taxes.** Upon the timely request by Interconnection Customer, and at Interconnection Customer's sole expense, Transmission Owner may appeal, protest, seek abatement of, or otherwise contest any tax (other than federal or state income tax) asserted or assessed against Transmission Owner for which Interconnection Customer may be required to reimburse Transmission Owner under the terms of this GIA. Interconnection Customer shall pay to Transmission Owner on a periodic basis, as invoiced by Transmission Owner, Transmission Owner's documented reasonable costs of prosecuting such appeal, protest, abatement, or other contest. Interconnection Customer and Transmission Owner shall cooperate in good faith with respect to any such contest. Unless the payment of such taxes is a prerequisite to an appeal or abatement or cannot be deferred, no amount shall be payable by Interconnection Customer to Transmission Owner for such taxes until they are assessed by a final, non-appealable order by any court or agency of competent jurisdiction. In the event



that a tax payment is withheld and ultimately due and payable after appeal, Interconnection Customer will be responsible for all taxes, interest and penalties, other than penalties attributable to any delay caused by Transmission Owner.

**5.18 Tax Status.** All Parties shall cooperate with each other to maintain their tax status. Nothing in this GIA is intended to adversely affect any Party's tax exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

**5.19 Modification.**

**5.19.1 General.** Each Party may undertake modifications to its facilities. If a Party plans to undertake a modification that reasonably may be expected to affect another Party's facilities, that Party shall provide to the other Parties sufficient information regarding such modification so that the other Parties may evaluate the potential impact of such modification prior to commencement of the work. Such information shall be deemed to be confidential hereunder and shall include information concerning the timing of such modifications and whether such modifications are expected to interrupt the flow of electricity from the Generating Facility. The Party desiring to perform such work shall provide the relevant drawings, plans, and specifications to the other Parties at least ninety (90) Calendar Days in advance of the commencement of the work or such shorter period upon which the Parties may agree, which agreement shall not unreasonably be withheld, conditioned or delayed.

In the case of Generating Facility modifications that do not require Interconnection Customer to submit an Interconnection Request, Transmission Owner shall provide, within thirty (30) Calendar Days (or such other time as the Parties may agree), an estimate of any additional modifications to the Transmission System, Transmission Owner's Interconnection Facilities or Network Upgrades necessitated by such Interconnection Customer modification and a good faith estimate of the costs thereof.

**5.19.2 Standards.** Any additions, modifications, or replacements made to a Party's facilities shall be designed, constructed and operated in accordance with this GIA and Good Utility Practice.

**5.19.3 Modification Costs.** Interconnection Customer shall not be directly assigned for the costs of any additions, modifications, or replacements that Transmission Owner makes to Transmission Owner's Interconnection Facilities or the Transmission System to facilitate the interconnection of a third party to Transmission Owner's Interconnection Facilities or the Transmission System, or to provide transmission service to a third party under Transmission Provider's Tariff. Interconnection Customer shall be responsible for the costs of any additions, modifications, or replacements to Interconnection Customer's Interconnection Facilities that may be necessary to maintain or upgrade such Interconnection Customer's Interconnection Facilities consistent with Applicable Laws and Regulations, Applicable Reliability Standards or Good Utility Practice.

**5.20 Delays.** If a Network Upgrade(s) identified in Appendix A is delayed during the construction process and the Commercial Operation Date for the Generating Facility identified in Appendix B is no longer feasible, the Commercial Operation Date in Appendix B may be modified to no later than six (6) months following the in-service date for the last Network Upgrade identified in Appendix A.

## **ARTICLE 6. TESTING AND INSPECTION**

- 6.1 Pre-Commercial Operation Date Testing and Modifications.** Prior to the Commercial Operation Date, Transmission Owner shall test Transmission Owner's Interconnection Facilities and Network Upgrades and Interconnection Customer shall test the Generating Facility and Interconnection Customer's Interconnection Facilities to ensure their safe and reliable operation. Similar testing may be required after initial operation. Each Party shall make any modifications to its facilities that are found to be necessary as a result of such testing. Interconnection Customer shall bear the cost of all such testing and modifications. Interconnection Customer shall generate test energy at the Generating Facility only if it has arranged for the delivery of such test energy.
- 6.2 Post-Commercial Operation Date Testing and Modifications.** Each Party shall at its own expense perform routine inspection and testing of its facilities and equipment in accordance with Good Utility Practice as may be necessary to ensure the continued interconnection of the Generating Facility with the Transmission System in a safe and reliable manner. Each Party shall have the right, upon advance written notice, to require reasonable additional testing of the other Party's facilities, at the requesting Party's expense, as may be in accordance with Good Utility Practice.
- 6.3 Right to Observe Testing.** Each Party shall notify the other Parties in advance of its performance of tests of its Interconnection Facilities. The other Parties have the right, at its own expense, to observe such testing.
- 6.4 Right to Inspect.** Each Party shall have the right, but shall have no obligation to: (i) observe another Parties' tests and/or inspection of any of its System Protection Facilities and other protective equipment, including power system stabilizers; (ii) review the settings of the other Parties' System Protection Facilities and other protective equipment; and (iii) review another Parties' maintenance records relative to the Interconnection Facilities, the System Protection Facilities and other protective equipment. Any Party may exercise these rights from time to time as it deems necessary upon reasonable notice to the other Parties. The exercise or non-exercise by another Party of any such rights shall not be construed as an endorsement or confirmation of any element or condition of the Interconnection Facilities or the System Protection Facilities or other protective equipment or the operation thereof, or as a warranty as to the fitness, safety, desirability, or reliability of same. Any information that any Party obtains through the exercise of any of its rights under this Article 6.4 shall be deemed to be Confidential Information and treated pursuant to Article 22 of this GIA.

## **ARTICLE 7. METERING**

- 7.1 General.** Each Party shall comply with the Applicable Reliability Council requirements. Unless otherwise agreed by the Parties, Transmission Owner shall install Metering Equipment at the Point of Interconnection prior to any operation of the Generating Facility and shall own, operate, test and maintain such Metering Equipment. Power flows to and from the Generating Facility shall be measured at or, at Transmission Owner's option, compensated to, the Point of Interconnection. Transmission Owner shall provide metering quantities, in analog and/or digital form, to Interconnection Customer and Transmission Provider on a same-time basis using communication as provided in Article 8. Interconnection Customer shall bear all reasonable documented costs associated with the purchase, installation, operation, testing and maintenance of the Metering Equipment.
- 7.2 Check Meters.** Interconnection Customer, at its option and expense, may install and operate, on its premises and on its side of the Point of Interconnection, one or more check meters to check Transmission Owner's meters. Such check meters shall be for check purposes only and shall not be used for the measurement of power flows for purposes of this GIA, except as provided in Article 7.4 below. The check meters shall be subject at all reasonable times to inspection and examination by Transmission Owner or its designee. The installation, operation and maintenance thereof shall be performed entirely by Interconnection Customer in accordance with Good Utility Practice.
- 7.3 Standards.** Transmission Owner shall install, calibrate, and test revenue quality Metering Equipment in accordance with applicable ANSI standards.
- 7.4 Testing of Metering Equipment.** Transmission Owner shall inspect and test all Transmission Owner-owned Metering Equipment upon installation and at least once every two (2) years thereafter. If requested to do so by Interconnection Customer, Transmission Owner shall, at Interconnection Customer's expense, inspect or test Metering Equipment more frequently than every two (2) years. Transmission Owner shall give reasonable notice of the time when any inspection or test shall take place, and Interconnection Customer may have representatives present at the test or inspection. If at any time Metering Equipment is found to be inaccurate or defective, it shall be adjusted, repaired or replaced at Interconnection Customer's expense, in order to provide accurate metering, unless the inaccuracy or defect is due to Transmission Owner's failure to maintain, then Transmission Owner shall pay. If Metering Equipment fails to register, or if the measurement made by Metering Equipment during a test varies by more than two percent from the measurement made by the standard meter used in the test, Transmission Owner shall adjust the measurements by correcting all measurements for the period during which Metering Equipment was in error by using Interconnection Customer's check meters, if installed. If no such check meters are installed or if the period cannot be reasonably ascertained, the adjustment shall be for the period immediately preceding the test of the Metering Equipment equal to one-half the time from the date of the last previous test of the Metering Equipment.
- 7.5 Metering Data.** At Interconnection Customer's expense, the metered data shall be telemetered to one or more locations designated by Transmission Owner and one or more locations designated by Interconnection Customer. Such telemetered data shall be used,

under normal operating conditions, as the official measurement of the amount of energy delivered from the Generating Facility to the Point of Interconnection.

## **ARTICLE 8. COMMUNICATIONS**

**8.1 Interconnection Customer Obligations.** Interconnection Customer shall maintain satisfactory operating communications with Transmission Owner's Transmission System dispatcher or representative designated by Transmission Owner. Interconnection Customer shall provide standard voice line, dedicated voice line and facsimile communications at its Generating Facility control room or central dispatch facility through use of either the public telephone system, or a voice communications system that does not rely on the public telephone system. Interconnection Customer shall also provide the dedicated data circuit(s) necessary to provide Interconnection Customer data to Transmission Owner as set forth in Appendix D, Security Arrangements Details. The data circuit(s) shall extend from the Generating Facility to the location(s) specified by Transmission Owner. Any required maintenance of such communications equipment shall be performed by Interconnection Customer. Operational communications shall be activated and maintained under, but not be limited to, the following events: system paralleling or separation, scheduled and unscheduled shutdowns, equipment clearances, and hourly and daily load data.

**8.2 Remote Terminal Unit.** Prior to the Initial Synchronization Date of the Generating Facility, a Remote Terminal Unit, or equivalent data collection and transfer equipment acceptable to the Parties, shall be installed by Interconnection Customer, or by Transmission Owner at Interconnection Customer's expense, to gather accumulated and instantaneous data to be telemetered to the location(s) designated by Transmission Owner through use of a dedicated point-to-point data circuit(s) as indicated in Article 8.1. The communication protocol for the data circuit(s) shall be specified by Transmission Owner. Instantaneous bi-directional analog real power and reactive power flow information must be telemetered directly to the location(s) specified by Transmission Owner.

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.

**8.3 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.

**8.4 Provision of Data from a Variable Energy Resource.** The Interconnection Customer whose Generating Facility is a Variable Energy Resource shall provide meteorological and forced outage data to the Transmission Provider to the extent necessary for the Transmission Provider's development and deployment of power production forecasts for that class of Variable Energy Resources. The Interconnection Customer with a Variable Energy Resource having wind as the energy source, at a minimum, will be required to provide the Transmission Provider with (i) site-specific meteorological data including:

temperature, wind speed, wind direction, relative humidity and atmospheric pressure and (ii) site specific geographic data including location (latitude and longitude) of the Variable Energy Resource and location (latitude and longitude) and height of the facility that will contain the equipment necessary to provide the meteorological data for such resource. The Interconnection Customer with a Variable Energy Resource having solar as the energy source, at a minimum, will be required to provide the Transmission Provider with site-specific meteorological data including: temperature, atmospheric pressure, and irradiance. The Transmission Provider and Interconnection Customer whose Generating Facility is a Variable Energy Resource shall mutually agree to any additional meteorological data that are required for the development and deployment of a power production forecast. The Interconnection Customer whose Generating Facility is a Variable Energy Resource also shall submit data to the Transmission Provider regarding all forced outages to the extent necessary for the Transmission Provider's development and deployment of power production forecasts for that class of Variable Energy Resources. The exact specifications of the meteorological and forced outage data to be provided by the Interconnection Customer to the Transmission Provider, including the frequency and timing of data submittals, shall be made taking into account the size and configuration of the Variable Energy Resource, its characteristics, location, and its importance in maintaining generation resource adequacy and transmission system reliability in its area. All requirements for meteorological, geographical and forced outage data must be commensurate with the power production forecasting employed by the Transmission Provider. Such requirements for meteorological, geographical and forced outage data are set forth in Appendix C, Interconnection Details, of this GIA, as they may change from time to time.

## **ARTICLE 9. OPERATIONS**

- 9.1 General.** Each Party shall comply with the Applicable Reliability Council requirements. Each Party shall provide to the other Parties all information that may reasonably be required by the other Parties to comply with Applicable Laws and Regulations and Applicable Reliability Standards.
- 9.2 Control Area Notification.** At least three months before Initial Synchronization Date, Interconnection Customer shall notify Transmission Provider and Transmission Owner in writing of the Control Area in which the Generating Facility will be located. If Interconnection Customer elects to locate the Generating Facility in a Control Area other than the Control Area in which the Generating Facility is physically located, and if permitted to do so by the relevant transmission tariffs, all necessary arrangements, including but not limited to those set forth in Article 7 and Article 8 of this GIA, and remote Control Area generator interchange agreements, if applicable, and the appropriate measures under such agreements, shall be executed and implemented prior to the placement of the Generating Facility in the other Control Area.
- 9.3 Transmission Provider and Transmission Owner Obligations.** Transmission Provider and Transmission Owner shall cause the Transmission System and Transmission Owner's Interconnection Facilities to be operated, maintained and controlled in a safe and reliable manner and in accordance with this GIA. Transmission Provider or Transmission Owner

may provide operating instructions to Interconnection Customer consistent with this GIA and Transmission Owner's operating protocols and procedures as they may change from time to time. Transmission Provider and Transmission Owner will consider changes to its operating protocols and procedures proposed by Interconnection Customer.

**9.4 Interconnection Customer Obligations.** Interconnection Customer shall at its own expense operate, maintain and control the Generating Facility and the Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this GIA. Interconnection Customer shall operate the Generating Facility and Interconnection Customer's Interconnection Facilities in accordance with all applicable requirements of the Control Area of which it is part, as such requirements are set forth in Appendix C, Interconnection Details, of this GIA. Appendix C, Interconnection Details, will be modified to reflect changes to the requirements as they may change from time to time. Any Party may request that another Party provide copies of the requirements set forth in Appendix C, Interconnection Details, of this GIA.

**9.5 Start-Up and Synchronization.** Consistent with the Parties' mutually acceptable procedures, the Interconnection Customer is responsible for the proper synchronization of the Generating Facility to the Transmission System.

**9.6 Reactive Power.**

**9.6.1 Power Factor Design Criteria.** Interconnection Customer shall design the Generating Facility to maintain a composite power delivery at continuous rated power output at the Point of Interconnection at a power factor within the range of 0.95 leading to 0.95 lagging, unless Transmission Provider or Transmission Owner has established different requirements that apply to all generators in the Control Area on a comparable basis. A wind generator plant shall maintain a power factor within the range of .95 leading to .95 lagging, measured at the Point of Interconnection as defined in the GIA, if the Transmission Provider's System Impact Study shows that such a requirement is necessary to ensure safety or reliability.

**9.6.2 Voltage Schedules.** Once Interconnection Customer has synchronized the Generating Facility with the Transmission System, Transmission Provider and/or Transmission Owner shall require Interconnection Customer to operate the Generating Facility to produce or absorb reactive power within the design limitations of the Generating Facility set forth in Article 9.6.1 (Power Factor Design Criteria). Transmission Owner's voltage schedules shall treat all sources of reactive power in the Control Area in an equitable and not unduly discriminatory manner. Transmission Owner shall exercise Reasonable Efforts to provide Interconnection Customer with such schedules at least one (1) day in advance, and may make changes to such schedules as necessary to maintain the reliability of the Transmission System. Interconnection Customer shall operate the Generating Facility to maintain the specified output voltage or power factor at the Point of Interconnection within the design limitations of the Generating Facility set forth in Article 9.6.1 (Power Factor Design Criteria). If

Interconnection Customer is unable to maintain the specified voltage or power factor, it shall promptly notify the Transmission Owner.

**9.6.2.1 Governors and Regulators.** Whenever the Generating Facility is operated in parallel with the Transmission System and the speed governors (if installed on the generating unit pursuant to Good Utility Practice) and voltage regulators are capable of operation, Interconnection Customer shall operate the Generating Facility with its speed governors and voltage regulators in automatic operation. If the Generating Facility's speed governors and voltage regulators are not capable of such automatic operation, the Interconnection Customer shall immediately notify Transmission Owner's system operator, or its designated representative, and ensure that such Generating Facility's reactive power production or absorption (measured in Mvars) are within the design capability of the Generating Facility's generating unit(s) and steady state stability limits. Interconnection Customer shall not cause its Generating Facility to disconnect automatically or instantaneously from the Transmission System or trip any generating unit comprising the Generating Facility for an under or over frequency condition in accordance with Good Utility Practice and Applicable Reliability Standards.

**9.6.3 Payment for Reactive Power.** Transmission Provider is required to pay Interconnection Customer for reactive power that Interconnection Customer provides or absorbs from the Generating Facility when Transmission Owner requests Interconnection Customer to operate its Generating Facility outside the range specified in Article 9.6.1. Payments shall be pursuant to Article 11.8 or such other agreement to which the Parties have otherwise agreed; provided however, to the extent the Tariff contains a provision providing for such compensation, that Tariff provision shall control.

## **9.7 Outages and Interruptions.**

### **9.7.1 Outages.**

**9.7.1.1 Outage Authority and Coordination.** Each Party may in accordance with Good Utility Practice in coordination with the other Party remove from service any of its respective Interconnection Facilities or Network Upgrades that may impact the other Party's facilities as necessary to perform maintenance or testing or to install or replace equipment. Absent an Emergency Condition, the Party scheduling a removal of such facility(ies) from service will use Reasonable Efforts to schedule such removal on a date and time mutually acceptable to all Parties. In all circumstances, any Party planning to remove such facility(ies) from service shall use Reasonable Efforts to minimize the effect on the other Parties of such removal.

**9.7.1.2 Outage Schedules.** Transmission Provider shall post scheduled outages of its transmission facilities on the OASIS. Interconnection Customer

shall submit its planned maintenance schedules for the Generating Facility to Transmission Provider for a minimum of a rolling twenty-four month period. Interconnection Customer shall update its planned maintenance schedules as necessary. Transmission Provider may request Interconnection Customer to reschedule its maintenance as necessary to maintain the reliability of the Transmission System; provided, however, adequacy of generation supply shall not be a criterion in determining Transmission System reliability. Transmission Provider shall compensate Interconnection Customer for any additional direct costs that Interconnection Customer incurs as a result of having to reschedule maintenance, including any additional overtime, breaking of maintenance contracts or other costs above and beyond the cost Interconnection Customer would have incurred absent Transmission Provider's request to reschedule maintenance. Interconnection Customer will not be eligible to receive compensation, if during the twelve (12) months prior to the date of the scheduled maintenance, Interconnection Customer had modified its schedule of maintenance activities.

**9.7.1.3 Outage Restoration.** If an outage on a Party's Interconnection Facilities or Network Upgrades adversely affects another Party's operations or facilities, the Party that owns or controls the facility that is out of service shall use Reasonable Efforts to promptly restore such facility(ies) to a normal operating condition consistent with the nature of the outage. The Party that owns or controls the facility that is out of service shall provide the other Parties, to the extent such information is known, information on the nature of the Emergency Condition, an estimated time of restoration, and any corrective actions required. Initial verbal notice shall be followed up as soon as practicable with written notice explaining the nature of the outage.

**9.7.2 Interruption of Service.** If required by Good Utility Practice to do so, Transmission Provider and/or Transmission Owner may require Interconnection Customer to interrupt or reduce deliveries of electricity if such delivery of electricity could adversely affect Transmission Provider's and/or Transmission Owner's ability to perform such activities as are necessary to safely and reliably operate and maintain the Transmission System. The following provisions shall apply to any interruption or reduction permitted under this Article 9.7.2:

**9.7.2.1** The interruption or reduction shall continue only for so long as reasonably necessary under Good Utility Practice;

**9.7.2.2** Any such interruption or reduction shall be made on an equitable, non-discriminatory basis with respect to all generating facilities directly connected to the Transmission System;

**9.7.2.3** When the interruption or reduction must be made under circumstances which do not allow for advance notice, Transmission Provider or Transmission Owner shall notify Interconnection Customer by telephone



as soon as practicable of the reasons for the curtailment, interruption, or reduction, and, if known, its expected duration. Telephone notification shall be followed by written notification as soon as practicable;

**9.7.2.4** Except during the existence of an Emergency Condition, when the interruption or reduction can be scheduled without advance notice, Transmission Provider or Transmission Owner shall notify Interconnection Customer in advance regarding the timing of such scheduling and further notify Interconnection Customer of the expected duration. Transmission Provider or Transmission Owner shall coordinate with Interconnection Customer using Good Utility Practice to schedule the interruption or reduction during periods of least impact to Interconnection Customer and Transmission Owner;

**9.7.2.5** The Parties shall cooperate and coordinate with each other to the extent necessary in order to restore the Generating Facility, Interconnection Facilities, and the Transmission System to their normal operating state, consistent with system conditions and Good Utility Practice.

**9.7.3 Under-Frequency and Over Frequency Conditions.** The Transmission System is designed to automatically activate a load-shed program as required by the Applicable Reliability Council in the event of an under-frequency system disturbance. Interconnection Customer shall implement under-frequency and over-frequency relay set points for the Generating Facility as required by the Applicable Reliability Council to ensure "ride through" capability of the Transmission System. Generating Facility response to frequency deviations of pre-determined magnitudes, both under-frequency and over-frequency deviations, shall be studied and coordinated with Transmission Provider in accordance with Good Utility Practice. The term "ride through" as used herein shall mean the ability of a generating facility to stay connected to and synchronized with the Transmission System during system disturbances within a range of under-frequency and over-frequency conditions, in accordance with Good Utility Practice.

**9.7.4 System Protection and Other Control Requirements.**

**9.7.4.1 System Protection Facilities.** Interconnection Customer shall, at its expense, install, operate and maintain System Protection Facilities as a part of the Generating Facility or Interconnection Customer's Interconnection Facilities. Transmission Owner shall install at Interconnection Customer's expense any System Protection Facilities that may be required on Transmission Owner's Interconnection Facilities or the Transmission System as a result of the interconnection of the Generating Facility and the Interconnection Customer's Interconnection Facilities.

**9.7.4.2** Each Party's protection facilities shall be designed and coordinated with other systems in accordance with Good Utility Practice.

**9.7.4.3** Each Party shall be responsible for protection of its facilities consistent with Good Utility Practice.

**9.7.4.4** Each Party's protective relay design shall incorporate the necessary test switches to perform the tests required in Article 6. 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/or the tripping of Interconnection Customer's units.

**9.7.4.5** Each Party will test, operate and maintain System Protection Facilities in accordance with Good Utility Practice.

**9.7.4.6** Prior to the In-Service Date, and again prior to the Commercial Operation Date, each Party or its agent shall perform a complete calibration test and functional trip test of the System Protection Facilities. At intervals suggested by Good Utility Practice and following any apparent malfunction of the System Protection Facilities, each Party shall perform both calibration and functional trip tests of its System Protection Facilities. 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.

**9.7.5 Requirements for Protection.** In compliance with Good Utility Practice, Interconnection Customer shall provide, install, own, and maintain relays, circuit breakers and all other devices necessary to remove any fault contribution of the Generating Facility to any short circuit occurring on the Transmission System not otherwise isolated by Transmission Owner's equipment, such that the removal of the fault contribution shall be coordinated with the protective requirements of the Transmission System. Such protective equipment shall include, without limitation, a disconnecting device or switch with load-interrupting capability located between the Generating Facility and the Transmission System at a site selected upon mutual agreement (not to be unreasonably withheld, conditioned or delayed) of the Parties. Interconnection Customer shall be responsible for protection of the Generating Facility and Interconnection Customer's other equipment from such conditions as negative sequence currents, over- or under-frequency, sudden load rejection, over- or under-voltage, and generator loss-of-field. Interconnection Customer shall be solely responsible to disconnect the Generating Facility and Interconnection Customer's other equipment if conditions on the Transmission System could adversely affect the Generating Facility.

**9.7.6 Power Quality.** No Party's facilities shall cause excessive voltage flicker nor introduce excessive distortion to the sinusoidal voltage or current waves as defined by ANSI Standard C84.1-1989, in accordance with IEEE Standard 519, or any applicable superseding electric industry standard. In the event of a conflict between ANSI Standard C84.1-1989, or any applicable superseding electric

industry standard, ANSI Standard C84.1-1989, or the applicable superseding electric industry standard, shall control.

**9.8 Switching and Tagging Rules.** Each Party shall provide the other Parties a copy of its switching and tagging rules that are applicable to the other Party's activities. Such switching and tagging rules shall be developed on a non-discriminatory basis. The Parties shall comply with applicable switching and tagging rules, as amended from time to time, in obtaining clearances for work or for switching operations on equipment.

**9.9 Use of Interconnection Facilities by Third Parties.**

**9.9.1 Purpose of Interconnection Facilities.** Except as may be required by Applicable Laws and Regulations, or as otherwise agreed to among the Parties, the Interconnection Facilities shall be constructed for the sole purpose of interconnecting the Generating Facility to the Transmission System and shall be used for no other purpose.

**9.9.2 Third Party Users.** If required by Applicable Laws and Regulations or if the Parties mutually agree, such agreement not to be unreasonably withheld, to allow one or more third parties to use Transmission Owner's Interconnection Facilities, or any part thereof, Interconnection Customer will be entitled to compensation for the capital expenses it incurred in connection with the Interconnection Facilities based upon the pro rata use of the Interconnection Facilities by Transmission Owner, all third party users, and Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually-agreed upon methodology. In addition, cost responsibility for ongoing costs, including operation and maintenance costs associated with the Interconnection Facilities, will be allocated between Interconnection Customer and any third party users based upon the pro rata use of the Interconnection Facilities by Transmission Owner, all third party users, and Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually agreed upon methodology. If the issue of such compensation or allocation cannot be resolved through such negotiations, it shall be submitted to FERC for resolution.

**9.10 Disturbance Analysis Data Exchange.** The Parties will cooperate with one another in the analysis of disturbances to either the Generating Facility or the Transmission 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, and any disturbance information required by Good Utility Practice.

**ARTICLE 10. MAINTENANCE**

**10.1 Transmission Owner Obligations.** Transmission Owner shall maintain the Transmission System and Transmission Owner's Interconnection Facilities in a safe and reliable manner and in accordance with this GIA.

- 10.2 Interconnection Customer Obligations.** Interconnection Customer shall maintain the Generating Facility and Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this GIA.
- 10.3 Coordination.** The Parties shall confer regularly to coordinate the planning, scheduling and performance of preventive and corrective maintenance on the Generating Facility and the Interconnection Facilities.
- 10.4 Secondary Systems.** Each Party shall cooperate with the others in the inspection, maintenance, and testing of control or power circuits that operate below 600 volts, AC or DC, including, but not limited to, any hardware, control or protective devices, cables, conductors, electric raceways, secondary equipment panels, transducers, batteries, chargers, and voltage and current transformers that directly affect the operation of a Party's facilities and equipment which may reasonably be expected to impact another Party. Each Party shall provide advance notice to the other Parties before undertaking any work on such circuits, especially on electrical circuits involving circuit breaker trip and close contacts, current transformers, or potential transformers.
- 10.5 Operating and Maintenance Expenses.** Subject to the provisions herein addressing the use of facilities by others, and except for operations and maintenance expenses associated with modifications made for providing interconnection or transmission service to a third party and such third party pays for such expenses, Interconnection Customer shall be responsible for all reasonable expenses including overheads, associated with: (1) owning, operating, maintaining, repairing, and replacing Interconnection Customer's Interconnection Facilities; and (2) operation, maintenance, repair and replacement of Transmission Owner's Interconnection Facilities.

## **ARTICLE 11. PERFORMANCE OBLIGATION**

- 11.1 Interconnection Customer Interconnection Facilities.** Interconnection Customer shall design, procure, construct, install, own and/or control Interconnection Customer's Interconnection Facilities described in Appendix A, Interconnection Facilities, Network Upgrades and Distribution Upgrades, at its sole expense.
- 11.2 Generating Facility.** Interconnection Customer shall install the Generating Facilities described in Appendix C within three (3) years of the Commercial Operation Date(s) specified in Appendix B.
- 11.3 Transmission Owner's Interconnection Facilities.** Transmission Owner shall design, procure, construct, install, own and/or control the Transmission Owner's Interconnection Facilities described in Appendix A, Interconnection Facilities, Network Upgrades and Distribution Upgrades, at the sole expense of the Interconnection Customer.
- 11.4 Network Upgrades and Distribution Upgrades.** All Network Upgrades and Distribution Upgrades described in Appendix A shall be constructed in accordance with the process set forth in Section VI of Attachment O. Transmission Owner shall design, procure, construct, install, and own the Network Upgrades and Distribution Upgrades described in Appendix A, Interconnection Facilities, Network Upgrades and Distribution

Upgrades that are associated with that Transmission Owner's system. The Distribution Upgrades and Network Upgrades described in Appendix A shall be solely funded by Interconnection Customer unless Transmission Owner elects to fund the capital for the Distribution Upgrades or Network Upgrades.

**11.4.1 Agreement to Fund Shared Network Upgrades.** Interconnection Customer agrees to fund Shared Network Upgrades, as determined by Transmission Provider. Where applicable, payments to fund Shared Network Upgrade(s) that are made to Transmission Provider by Interconnection Customer will be disbursed by Transmission Provider to the appropriate entities that are constructing the Shared Network Upgrades in accordance with Attachment O of the Tariff. In the event that Interconnection Customer fails to meet its obligation to fund Shared Network Upgrades, Transmission Owner and Transmission Provider shall not be responsible for the Interconnection Customer's funding obligation.

**11.4.2 Contingencies Affecting Network Upgrades, System Protection Facilities and Distribution Upgrades.** Network Upgrades, System Protection Facilities and Distribution Upgrades that are required to accommodate the Generating Facility may be modified because (a) a higher queued Interconnection Request withdrew or was deemed to have withdrawn, (b) the GIA associated with a higher queued Interconnection Request was terminated, or (c) changes occur in equipment design standards or reliability criteria giving rise to the need for restudy. The higher queued Interconnection Requests that could impact the Network Upgrades, System Protection Facilities and Distribution Upgrades required to accommodate the Generating Facility, and possible modifications that may result from the above listed events affecting the higher queued Interconnection Requests, to the extent such modifications are reasonably known and can be determined, and estimates of the costs associated with such required Network Upgrades, System Protection Facilities and Distribution Upgrades, shall be provided in Appendix A.

**11.4.3 Agreement to Restudy.** The Interconnection Customer agrees to allow the Transmission Provider to perform a restudy in accordance with Sections 8.8 and 8.13 of the GIP if the Transmission Provider determines a restudy is required because one or more of the contingencies in Article 11.4.2 occurred. If a restudy is required, the Transmission Provider shall provide notice to Interconnection Customer. The Parties agree to amend Appendix A to this GIA in accordance with Article 30.10 to reflect the results of the restudy.

## **11.5 Transmission Credits.**

**11.5.1 Credits for Amounts Advanced for Network Upgrades.** Interconnection Customer shall be entitled to compensation in accordance with Attachment Z2 of the Tariff for any Network Upgrades including any tax gross-up or other tax-

related payments associated with Network Upgrades, and not refunded to Interconnection Customer pursuant to Article 5.17.8.

**11.5.2 Special Provisions for Affected Systems.** Unless Transmission Provider provides, under the GIA, for the repayment of amounts advanced to Affected System Operator for Network Upgrades, Interconnection Customer and Affected System Operator shall enter into an agreement that provides for such repayment. The agreement shall specify the terms governing payments to be made by Interconnection Customer to the Affected System Operator as well as the repayment by the Affected System Operator.

**11.5.3** Notwithstanding any other provision of this GIA, nothing herein shall be construed as relinquishing or foreclosing any rights, including but not limited to firm transmission rights, capacity rights, transmission congestion rights, or transmission credits, that Interconnection Customer, shall be entitled to, now or in the future under any other agreement or tariff as a result of, or otherwise associated with, the transmission capacity, if any, created by the Network Upgrades, including the right to obtain transmission credits for transmission service that is not associated with the Generating Facility.

## **11.6 Initial Payment.**

Interconnection Customer shall make an initial payment (“Initial Payment”) equal to the greater of a) twenty (20) percent of the total cost of Network Upgrades, Shared Network Upgrades, Transmission Owner Interconnection Facilities and/or Distribution Upgrades listed in Appendix A or b) \$4,000/MW of the size of the Generating Facility. Any remaining milestone deposits provided in Section 8.2 and Section 8.9 of the GIP will be applied to this requirement. The Initial Payment shall be provided to Transmission Owner or Transmission Provider as required in Appendix B by Interconnection Customer pursuant to this Article 11.6 within the later of a) thirty (30) days of the execution of the GIA by all Parties, or b) thirty (30) days of acceptance by FERC if the GIA is filed unexecuted and the payment is being protested by Interconnection Customer, or c) thirty (30) days of the filing if the GIA is filed unexecuted and the Initial Payment is not being protested by Interconnection Customer. If this GIA is terminated, then the Initial Payment shall be refunded with accrued interest calculated from the date of the receipt of the Initial Payment to the date of the refund, if any, to the Interconnection Customer less:

- a. any costs that have been incurred for the construction of the facilities specified in Appendix A;
- b. any funds necessary for the construction of those Shared Network Upgrades, or Network Upgrades, that would be assigned to another interconnection customer where such upgrade costs would not have been assigned but for the termination of the GIA; and
- c. any costs that have been incurred for the construction of those Shared Network Upgrades, or Network Upgrades, that are no longer required due

to the termination of the GIA that were paid for by another interconnection customer.

- 11.7 Provision of Security.** At least thirty (30) Calendar Days prior to the commencement of the procurement, installation, or construction of a discrete portion of Interconnection Facilities, Network Upgrades, or Distribution Upgrades as defined in Appendix A of this GIA, Interconnection Customer shall provide Transmission Provider, at Interconnection Customer's option, a guarantee, a surety bond, letter of credit or other form of security that is reasonably acceptable to Transmission Provider and is consistent with the Uniform Commercial Code of the jurisdiction identified in Article 14.2.1. Such security for payment shall be in an amount sufficient to cover the costs for constructing, procuring and installing the applicable portion of Interconnection Facilities, Network Upgrades, or Distribution Upgrades as defined in Appendix A of this GIA and shall be reduced on a dollar-for-dollar basis for payments made to Transmission Provider or Transmission Owner for these purposes. If Interconnection Customer requests suspension pursuant to Article 5.16, Interconnection Customer may be required to provide Transmission Provider security in the form described above for its allocated share of Network Upgrade(s) costs as calculated pursuant to Section 4.2.5 of the GIP and defined in Appendix A of this GIA.

In addition:

- 11.7.1** The guarantee must be made by an entity that meets the creditworthiness requirements of Transmission Provider, and contain terms and conditions that guarantee payment of any amount that may be due from Interconnection Customer, up to an agreed-to maximum amount.
- 11.7.2** The letter of credit must be issued by a financial institution reasonably acceptable to Transmission Provider and must specify a reasonable expiration date.
- 11.7.3** The surety bond must be issued by an insurer reasonably acceptable to Transmission Provider and must specify a reasonable expiration date.
- 11.8 Interconnection Customer Compensation.** If Transmission Provider or Transmission Owner requests or directs Interconnection Customer to provide a service pursuant to Articles 9.6.3 (Payment for Reactive Power), or 13.5.1 of this GIA, Transmission Provider shall compensate Interconnection Customer in accordance with Interconnection Customer's applicable rate schedule then in effect unless the provision of such service(s) is subject to the Tariff. Interconnection Customer shall serve Transmission Provider with any filing of a proposed rate schedule at the time of such filing with FERC. To the extent that no rate schedule is in effect at the time the Interconnection Customer is required to provide or absorb any Reactive Power under this GIA, Transmission Provider agrees to compensate Interconnection Customer in such amount as would have been due Interconnection Customer had the rate schedule been in effect at the time service commenced; provided, however, that such rate schedule must be filed at FERC or other appropriate Governmental Authority within sixty (60) Calendar Days of the commencement of service.

**11.8.1 Interconnection Customer Compensation for Actions During Emergency Condition.** Transmission Provider shall compensate Interconnection Customer for its provision of real and reactive power and other Emergency Condition services that Interconnection Customer provides to support the Transmission System during an Emergency Condition in accordance with Article 11.8.

## **ARTICLE 12. INVOICE**

The terms of this Article 12 apply to billing between the Parties for construction and operation and maintenance charges. All other billing will be handled according to the Tariff.

- 12.1 General.** Each Party shall submit to the other Party, on a monthly basis, invoices of amounts due for the preceding month. Each invoice shall state the month to which the invoice applies and fully describe the services and equipment provided. The Parties may discharge mutual debts and payment obligations due and owing to each other on the same date through netting, in which case all amounts a Party owes to the other Party under this GIA, including interest payments or credits, shall be netted so that only the net amount remaining due shall be paid by the owing Party.
- 12.2 Final Invoice.** Within six months after completion of the construction of Interconnection Facilities and the Network Upgrades, the Interconnection Customer shall receive an invoice of the final cost due under this GIA, including any applicable cost due to termination, which shall set forth such costs in sufficient detail to enable Interconnection Customer to compare the actual costs with the estimates and to ascertain deviations, if any, from the cost estimates. Interconnection Customer shall receive a refund of any amount by which the actual payment by Interconnection Customer for estimated costs exceeds the actual costs of construction within thirty (30) Calendar Days of the issuance of such final construction invoice.
- 12.3 Payment.** Invoices shall be rendered to the paying Party at the address specified in Appendix F. The Party receiving the invoice shall pay the invoice within thirty (30) Calendar Days of receipt. All payments shall be made in immediately available funds payable to the other Party, or by wire transfer to a bank named and account designated by the invoicing Party. Payment of invoices by either Party will not constitute a waiver of any rights or claims either Party may have under this GIA.
- 12.4 Disputes.** In the event of a billing dispute between the Parties, Transmission Owner, and Transmission Provider shall continue to provide Interconnection Service under this GIA as long as Interconnection Customer: (i) continues to make all payments not in dispute; and (ii) pays to Transmission Owner or into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If Interconnection Customer fails to meet these two requirements for continuation of service, then Transmission Owner may provide notice to Interconnection Customer of a Default pursuant to Article 17. Within thirty (30) Calendar Days after the resolution of the dispute, the Party that owes money to the other Party shall pay the amount due with interest calculated in accord with the methodology set forth in FERC's regulations at 18 C.F.R. § 35.19a(a)(2)(iii).

## **ARTICLE 13. EMERGENCIES**



- 13.1 Definition.** “Emergency Condition” shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of a Transmission Provider, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to the Transmission System, or the electric systems of others to which the Transmission Provider's Transmission System is directly connected; or (3) that, in the case of Transmission Owner, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, Transmission Owner's Interconnection Facilities; or (4) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided that Interconnection Customer is not obligated by the Generator Interconnection Agreement to possess black start capability.
- 13.2 Obligations.** Each Party shall comply with the Emergency Condition procedures of NERC, the Applicable Reliability Council, Transmission Provider, Applicable Laws and Regulations, and any emergency procedures agreed to by the Joint Operating Committee.
- 13.3 Notice.** Transmission Provider or Transmission Owner shall notify Interconnection Customer promptly when it becomes aware of an Emergency Condition that affects Transmission Owner's Interconnection Facilities or the Transmission System that may reasonably be expected to affect Interconnection Customer's operation of the Generating Facility or Interconnection Customer's Interconnection Facilities. Interconnection Customer shall notify Transmission Provider and Transmission Owner promptly when it becomes aware of an Emergency Condition that affects the Generating Facility or Interconnection Customer's Interconnection Facilities that may reasonably be expected to affect the Transmission System or Transmission Owner's Interconnection Facilities. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of Interconnection Customer's or Transmission Owner's facilities and operations, its anticipated duration and the corrective action taken and/or to be taken. The initial notice shall be followed as soon as practicable with written notice.
- 13.4 Immediate Action.** Unless, in Interconnection Customer's reasonable judgment, immediate action is required, Interconnection Customer shall obtain the consent of Transmission Owner, such consent to not be unreasonably withheld, prior to performing any manual switching operations at the Generating Facility or Interconnection Customer's Interconnection Facilities in response to an Emergency Condition either declared by Transmission Provider or Transmission Owner or otherwise regarding the Transmission System.
- 13.5 Transmission Provider and Transmission Owner Authority.**
- 13.5.1 General.** Transmission Provider and/or Transmission Owner may take whatever actions or inactions with regard to the Transmission System or Transmission Owner's Interconnection Facilities it deems necessary during an Emergency

Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Transmission System or Transmission Owner's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service.

Transmission Provider and Transmission Owner shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Generating Facility or Interconnection Customer's Interconnection Facilities. Transmission Provider and/or Transmission Owner may, on the basis of technical considerations, require the Generating Facility to mitigate an Emergency Condition by taking actions necessary and limited in scope to remedy the Emergency Condition, including, but not limited to, directing Interconnection Customer to shut-down, start-up, increase or decrease the real or reactive power output of the Generating Facility; implementing a reduction or disconnection pursuant to Article 13.5.2; directing Interconnection Customer to assist with blackstart (if available) or restoration efforts; or altering the outage schedules of the Generating Facility and Interconnection Customer's Interconnection Facilities. Interconnection Customer shall comply with all of Transmission Provider's and Transmission Owner's operating instructions concerning Generating Facility real power and reactive power output within the manufacturer's design limitations of the Generating Facility's equipment that is in service and physically available for operation at the time, in compliance with Applicable Laws and Regulations.

**13.5.2 Reduction and Disconnection.** Transmission Provider and/or Transmission Owner may reduce Interconnection Service or disconnect the Generating Facility or Interconnection Customer's Interconnection Facilities, when such reduction or disconnection is necessary under Good Utility Practice due to Emergency Conditions. These rights are separate and distinct from any right of curtailment of Transmission Provider pursuant to Transmission Provider's Tariff. When Transmission Provider and/or Transmission Owner can schedule the reduction or disconnection in advance, Transmission Provider and/or Transmission Owner shall notify Interconnection Customer of the reasons, timing and expected duration of the reduction or disconnection. Transmission Provider and/or Transmission Owner shall coordinate with Interconnection Customer using Good Utility Practice to schedule the reduction or disconnection during periods of least impact to Interconnection Customer, Transmission Provider and/or Transmission Owner. Any reduction or disconnection shall continue only for so long as reasonably necessary under Good Utility Practice. The Parties shall cooperate with each other to restore the Generating Facility, the Interconnection Facilities, and the Transmission System to their normal operating state as soon as practicable consistent with Good Utility Practice.

**13.6 Interconnection Customer Authority.** Consistent with Good Utility Practice and the GIA and the GIP, Interconnection Customer may take actions or inactions with regard to the Generating Facility or Interconnection Customer's Interconnection Facilities during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Generating Facility or Interconnection Customer's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service. Interconnection Customer shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Transmission System and Transmission Owner's

Interconnection Facilities. Transmission Provider and/or Transmission Owner shall use Reasonable Efforts to assist Interconnection Customer in such actions.

- 13.7 Limited Liability.** Except as otherwise provided in Article 11.8.1 of this GIA, no Party shall be liable to the other Parties for any action it takes in responding to an Emergency Condition so long as such action is made in good faith and is consistent with Good Utility Practice.

## **ARTICLE 14. REGULATORY REQUIREMENTS AND GOVERNING LAW**

- 14.1 Regulatory Requirements.** Each Party's obligations under this GIA shall be subject to its receipt of any required approval or certificate from one or more Governmental Authorities in the form and substance satisfactory to the applying Party, or the Party making any required filings with, or providing notice to, such Governmental Authorities, and the expiration of any time period associated therewith. Each Party shall in good faith seek and use its Reasonable Efforts to obtain such other approvals. Nothing in this GIA shall require Interconnection Customer to take any action that could result in its inability to obtain, or its loss of, status or exemption under the Federal Power Act the Public Utility Holding Company Act of 2005, or the Public Utility Regulatory Policies Act of 1978 as amended by the 2005 Energy Policy Act.

### **14.2 Governing Law.**

**14.2.1** The validity, interpretation and performance of this GIA and each of its provisions shall be governed by the laws of the state where the Point of Interconnection is located, without regard to its conflicts of law principles.

**14.2.2** This GIA is subject to all Applicable Laws and Regulations.

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

## **ARTICLE 15. NOTICES.**

- 15.1 General.** Unless otherwise provided in this GIA, any notice, demand or request required or permitted to be given by any Party to another and any instrument required or permitted to be tendered or delivered by any Party in writing to another shall be effective when delivered and may be so given, tendered or delivered, by recognized national courier, or by depositing the same with the United States Postal Service with postage prepaid, for delivery by certified or registered mail, addressed to the Party, or personally delivered to the Party, at the address set out in Appendix F, Addresses for Delivery of Notices and Billings.

Any Party may change the notice information in this GIA by giving five (5) Business Days written notice prior to the effective date of the change.

- 15.2 Billings and Payments.** Billings and payments shall be sent to the addresses set out in Appendix F.

**15.3 Alternative Forms of Notice.** Any notice or request required or permitted to be given by any Party to another and not required by this Agreement to be given in writing may be so given by telephone, facsimile or email to the telephone numbers and email addresses set out in Appendix F.

**15.4 Operations and Maintenance Notice.** Each Party shall notify the other Parties in writing of the identity of the person(s) that it designates as the point(s) of contact with respect to the implementation of Articles 9 and 10.

## **ARTICLE 16. FORCE MAJEURE**

### **16.1 Force Majeure.**

**16.1.1** Economic hardship is not considered a Force Majeure event.

**16.1.2** No Party shall be considered to be in Default 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 Parties in writing or by telephone as soon as reasonably possible after the occurrence of the cause relied upon. Telephone notices given pursuant to this article 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.

## **ARTICLE 17. DEFAULT**

### **17.1 Default.**

**17.1.1 General.** 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 GIA or the result of an act or omission of another Party. Upon a Breach, the non-breaching Party shall give written notice of such Breach to the breaching Party. Except as provided in Article 17.1.2, the breaching Party shall have thirty (30) Calendar Days from receipt of the Default notice within which to cure such Breach; provided however, if such Breach is not capable of cure within thirty (30) Calendar Days, the breaching Party shall commence such cure within thirty (30) Calendar Days after notice and continuously and diligently complete such cure within ninety (90) Calendar Days from receipt of the Default notice; and, if cured within such time, the Breach specified in such notice shall cease to exist.

**17.1.2 Right to Terminate.** If a Breach is not cured as provided in this article, or if a Breach is not capable of being cured within the period provided for herein, the

non-breaching Party shall have the right to declare a Default and terminate this GIA 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 GIA, to recover from the breaching 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 article will survive termination of this GIA.

## **ARTICLE 18. INDEMNITY, CONSEQUENTIAL DAMAGES AND INSURANCE**

**18.1 Indemnity.** The Parties shall at all times indemnify, defend, and hold the other Parties harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Parties' action or inactions of its obligations under this GIA on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

**18.1.1 Indemnified Person.** If an indemnified person is entitled to indemnification under this Article 18 as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under Article 18.1, to assume the defense of such claim, such indemnified person may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.

**18.1.2 Indemnifying Party.** If an indemnifying Party is obligated to indemnify and hold any indemnified person harmless under this Article 18, the amount owing to the indemnified person shall be the amount of such indemnified person's actual Loss, net of any insurance or other recovery.

**18.1.3 Indemnity Procedures.** Promptly after receipt by an indemnified person of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in Article 18.1 may apply, the indemnified person shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

The Indemnifying Party shall have the right to assume the defense thereof with counsel designated by such indemnifying Party and reasonably satisfactory to the indemnified person. If the defendants in any such action include one or more indemnified persons and the indemnifying Party and if the indemnified person reasonably concludes that there may be legal defenses available to it and/or other indemnified persons which are different from or additional to those available to the indemnifying Party, the indemnified person shall have the right to select separate counsel to assert such legal defenses and to otherwise participate in the defense of such action on its own behalf. In such instances, the indemnifying Party shall only be required to pay the fees and expenses of one additional

attorney to represent an indemnified person or indemnified persons having such differing or additional legal defenses.

The indemnified person shall be entitled, at its expense, to participate in any such action, suit or proceeding, the defense of which has been assumed by the indemnifying Party. Notwithstanding the foregoing, the indemnifying Party (i) shall not be entitled to assume and control the defense of any such action, suit or proceedings if and to the extent that, in the opinion of the indemnified person and its counsel, such action, suit or proceeding involves the potential imposition of criminal liability on the indemnified person, or there exists a conflict or adversity of interest between the indemnified person and the indemnifying Party, in such event the indemnifying Party shall pay the reasonable expenses of the indemnified person, and (ii) shall not settle or consent to the entry of any judgment in any action, suit or proceeding without the consent of the indemnified person, which shall not be reasonably withheld, conditioned or delayed.

**18.2 Consequential Damages.** Other than the Liquidated Damages heretofore described, in no event shall any Party be liable to any other Party under any provision of this GIA 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 any Party may be liable to another Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

**18.3 Insurance.** Interconnection Customer and Transmission Owner shall at their own expense, maintain in force throughout the period of this GIA, and until released by all other Parties, the following minimum insurance coverages, with insurers authorized to do business in the state where the Point of Interconnection is located:

**18.3.1** Employers' Liability and Workers' Compensation Insurance providing statutory benefits in accordance with the laws and regulations of the state in which the Point of Interconnection is located. The minimum limits for the Employers' 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.

**18.3.2** 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 (if applicable), independent contractors coverage, coverage for pollution(if exposure is present) and punitive or exemplary damages, with minimum limits of One Million Dollars (\$1,000,000) each occurrence/Two Million Dollars (\$2,000,000) general aggregate and Two Million Dollars

(\$2,000,000) products and completed operations aggregate combined single limit for personal injury, bodily injury, including death and property damage.

- 18.3.3** Comprehensive Automobile Liability Insurance for coverage of owned and 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.
- 18.3.4** Excess Liability Insurance over and above the Employers' Liability Commercial General Liability and Comprehensive Automobile Liability Insurance coverage, with a minimum combined single limit of Twenty Million Dollars (\$20,000,000) each occurrence/Twenty Million Dollars (\$20,000,000) general aggregate.
- 18.3.5** The Commercial General Liability Insurance, Comprehensive Automobile Insurance and Excess Public Liability Insurance policies shall name the other Party, its parent, associated and Affiliate 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 GIA against the Other Party Group and provide thirty (30) Calendar Days advance written notice to the Other Party Group prior to anniversary date of cancellation or any material change in coverage or condition.
- 18.3.6** 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 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.
- 18.3.7** 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 GIA, which coverage may be in the form of tail coverage or extended reporting period coverage if agreed to by all Parties.
- 18.3.8** The requirements contained herein as to the types and limits of all insurance to be maintained by the Interconnection Customer and Transmission Owner are not intended to and shall not in any manner, limit or qualify the liabilities and obligations assumed by the Parties under this Agreement.
- 18.3.9** Within ten (10) days following execution of this GIA, 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, Interconnection Customer and

Transmission Owner shall provide certification of all insurance required in this GIA, executed by each insurer or by an authorized representative of each insurer to the Other Party Group.

**18.3.10** Notwithstanding the foregoing, each Party may self-insure to meet the minimum insurance requirements of Articles 18.3.2 through 18.3.8 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 and that its self-insurance program meets the minimum insurance requirements of Articles 18.3.2 through 18.3.8. 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 Articles 18.3.2 through 18.3.9. In the event that a Party is permitted to self-insure pursuant to this article, it shall notify the other Party that it meets the requirements to self-insure and that its self-insurance program meets the minimum insurance requirements in a manner consistent with that specified in Article 18.3.9.

**18.3.11** 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 GIA.

## **ARTICLE 19. ASSIGNMENT**

**19.1 Assignment.** This GIA may be assigned by any Party only with the written consent of the other Parties; provided that any Party may assign this GIA without the consent of the other Parties 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 GIA; and provided further that Interconnection Customer shall have the right to assign this GIA, without the consent of Transmission Provider or Transmission Owner, for collateral security purposes to aid in providing financing for the Generating Facility, provided that Interconnection Customer will promptly notify Transmission Provider and Transmission Owner of any such assignment. Any financing arrangement entered into by the Interconnection Customer pursuant to this article 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 Transmission Provider and Transmission Owner of the date and particulars of any such exercise of assignment right(s), including providing the Transmission Provider with proof that it meets the requirements of Articles 11.7 and 18.3. Any attempted assignment that violates this article is void and ineffective. Any assignment under this GIA 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.

## **ARTICLE 20. SEVERABILITY**

**20.1 Severability.** If any provision in this GIA is finally determined to be invalid, void or unenforceable by any court or other Governmental Authority having jurisdiction, such



determination shall not invalidate, void or make unenforceable any other provision, agreement or covenant of this GIA; provided that if Interconnection Customer (or any third party, but only if such third party is not acting at the direction of Transmission Owner) seeks and obtains such a final determination with respect to any provision of the Negotiated Option (Article 5.1.3), then none of these provisions shall thereafter have any force or effect and the Parties' rights and obligations shall be governed solely by the Standard Option (Article 5.1.1).

## **ARTICLE 21. COMPARABILITY**

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

## **ARTICLE 22. CONFIDENTIALITY**

**22.1 Confidentiality.** Confidential Information shall include, without limitation, all information relating to a Party's technology, research and development, business affairs, and pricing, and any information supplied by any of the Parties to another prior to the execution of this GIA.

Information is Confidential Information only if it is clearly designated or marked in writing as confidential on the face of the document, or, if the information is conveyed orally or by inspection, if the Party providing the information orally informs the Party receiving the information that the information is confidential.

If requested by any Party, a Party shall provide in writing, the basis for asserting that the information referred to in this Article 22 warrants confidential treatment, and the requesting Party may disclose such writing to the appropriate Governmental Authority. Each Party shall be responsible for the costs associated with affording confidential treatment to its information.

**22.1.1 Term.** During the term of this GIA, and for a period of three (3) years after the expiration or termination of this GIA, except as otherwise provided in this Article 22, each Party shall hold in confidence and shall not disclose to any person Confidential Information.

**22.1.2 Scope.** Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the disclosing Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the disclosing Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of this GIA; or (6) is required, in accordance with Article 22.1.7 of the GIA, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise

required to be disclosed by law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under this GIA. Information designated as Confidential Information will no longer be deemed confidential if the Party that designated the information as confidential notifies the other Party that it no longer is confidential.

**22.1.3 Release of Confidential Information.** No Party shall release or disclose Confidential Information to any other person, except to its Affiliates (limited by the Standards of Conduct requirements), subcontractors, employees, consultants, or to parties who may be or considering providing financing to or equity participation with Interconnection Customer, or to potential purchasers or assignees of Interconnection Customer, on a need-to-know basis in connection with this GIA, unless such person has first been advised of the confidentiality provisions of this Article 22 and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Article 22.

**22.1.4 Rights.** Each Party retains all rights, title, and interest in the Confidential Information that each Party discloses another other Party. The disclosure by any Party to another Party of Confidential Information shall not be deemed a waiver by the disclosing Party or any other person or entity of the right to protect the Confidential Information from public disclosure.

**22.1.5 No Warranties.** By providing Confidential Information, no Party makes any warranties or representations as to its accuracy or completeness. In addition, by supplying Confidential Information, no Party obligates itself to provide any particular information or Confidential Information to another Party nor to enter into any further agreements or proceed with any other relationship or joint venture.

**22.1.6 Standard of Care.** Each Party shall use at least the same standard of care to protect Confidential Information it receives as it uses to protect its own Confidential Information from unauthorized disclosure, publication or dissemination. Each Party may use Confidential Information solely to fulfill its obligations to another Party under this GIA or its regulatory requirements.

**22.1.7 Order of Disclosure.** If a court or a Governmental Authority or entity with the right, power, and apparent authority to do so requests or requires a Party, by subpoena, oral deposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Parties with prompt notice of such request(s) or requirement(s) so that the other Parties may seek an appropriate protective order or waive compliance with the terms of this GIA. Notwithstanding the absence of a protective order or waiver, the Party may disclose such Confidential Information which, in the opinion of its counsel, the Party is legally compelled to disclose. Each Party will use Reasonable Efforts to obtain reliable assurance that

confidential treatment will be accorded any Confidential Information so furnished.

**22.1.8 Termination of Agreement.** Upon termination of this GIA for any reason, each Party shall, within ten (10) Calendar Days of receipt of a written request from another Party, use Reasonable Efforts to destroy, erase, or delete (with such destruction, erasure, and deletion certified in writing to the other Party) or return to the other Party, without retaining copies thereof, any and all written or electronic Confidential Information received from the other Party.

**22.1.9 Remedies.** In the instance where Transmission Owner is a Federal Power Agency, as specified in the opening paragraph of this Agreement, then this Section 22.1.9 shall not apply to Transmission Owner. The Parties agree that monetary damages would be inadequate to compensate a Party for another Party's Breach of its obligations under this Article 22. Each Party accordingly agrees that the other Parties shall be entitled to equitable relief, by way of injunction or otherwise, if the first Party Breaches or threatens to Breach its obligations under this Article 22, which equitable relief shall be granted without bond or proof of damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the Breach of this Article 22, but shall be in addition to all other remedies available at law or in equity. The Parties further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Article 22.

**22.1.10 Disclosure to FERC, its Staff, or a State.** Notwithstanding anything in this Article 22 to the contrary, and pursuant to 18 C.F.R. Section 1b.20, if FERC or its staff, during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to this GIA, the Party shall provide the requested information to FERC or its staff, within the time provided for in the request for information. In providing the information to FERC or its staff, the Party must, consistent with 18 C.F.R. Section 388.112, request that the information be treated as confidential and non-public by FERC and its staff and that the information be withheld from public disclosure. Parties are prohibited from notifying another Party to this GIA prior to the release of the Confidential Information to FERC or its staff. The Party shall notify the other Parties to the GIA when it is notified by FERC or its staff that a request to release Confidential Information has been received by FERC, at which time any of the Parties may respond before such information would be made public, pursuant to 18 C.F.R. Section 388.112. Requests from a state regulatory body conducting a confidential investigation shall be treated in a similar manner, if consistent with the applicable state rules and regulations.

**22.1.11** Subject to the exception in Article 22.1.10, any information that a Party claims is competitively sensitive, commercial or financial information under this GIA ("Confidential Information") shall not be disclosed by another 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 GIA or as a transmission service provider or a Control Area operator including disclosing the Confidential Information to an RTO or ISO or to a regional or national reliability organization. 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 subparagraph, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subparagraph, 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.

**22.1.12** 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).

## **ARTICLE 23. ENVIRONMENTAL RELEASES**

**23.1** Each Party shall notify the other Party, first orally and then in writing, of the release of any Hazardous Substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall: (i) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than twenty-four hours after such Party becomes aware of the occurrence; and (ii) promptly furnish to the other Party copies of any publicly available reports filed with any Governmental Authorities addressing such events.

## **ARTICLE 24. INFORMATION REQUIREMENTS**

**24.1 Information Acquisition.** Transmission Provider and Interconnection Customer shall submit specific information regarding the electrical characteristics of their respective facilities to each other as described below and in accordance with Applicable Reliability Standards.

**24.2 Information Submission by Transmission Provider.** The initial information submission by Transmission Provider shall occur no later than one hundred eighty (180) Calendar Days prior to Trial Operation and shall include Transmission System information necessary to allow Interconnection Customer to select equipment and meet any system protection and stability requirements, unless otherwise agreed to by the Parties. On a monthly basis Transmission Provider shall provide Interconnection Customer a status report on the construction and installation of Transmission Provider's Interconnection Facilities and Network Upgrades, including, but not limited to, the

following information: (1) progress to date; (2) a description of the activities since the last report (3) a description of the action items for the next period; and (4) the delivery status of equipment ordered.

## **ARTICLE 25. INFORMATION ACCESS AND AUDIT RIGHTS**

**25.1 Information Access.** Each Party (the "disclosing Party") shall make available to the other Parties information that is in the possession of the disclosing Party and is necessary in order for the other Parties to: (i) verify the costs incurred by the disclosing Party for which the other Parties are responsible under this GIA; and (ii) carry out its obligations and responsibilities under this GIA. The Parties shall not use such information for purposes other than those set forth in this Article 25.1 and to enforce their rights under this GIA.

**25.2 Reporting of Non-Force Majeure Events.** Each Party (the "notifying Party") shall notify the other Parties when the notifying Party becomes aware of its inability to comply with the provisions of this GIA for a reason other than a Force Majeure event. The Parties agree to cooperate with each other and provide necessary information regarding such inability to comply, including the date, duration, reason for the inability to comply, and corrective actions taken or planned to be taken with respect to such inability to comply. Notwithstanding the foregoing, notification, cooperation or information provided under this article shall not entitle the Parties receiving such notification to allege a cause for anticipatory breach of this GIA.

**25.3 Audit Rights.** Subject to the requirements of confidentiality under Article 22 of this GIA, each Party shall have the right, during normal business hours, and upon prior reasonable notice to another Party, to audit at its own expense that other Party's accounts and records pertaining to either Party's performance or either Party's satisfaction of obligations under this GIA. Such audit rights shall include audits of the other Party's costs, calculation of invoiced amounts, Transmission Provider's efforts to allocate responsibility for the provision of reactive support to the Transmission System, Transmission Provider's efforts to allocate responsibility for interruption or reduction of generation on the Transmission System, and each Party's actions in an Emergency Condition. Any audit authorized by this article shall be performed at the offices where such accounts and records are maintained and shall be limited to those portions of such accounts and records that relate to each Party's performance and satisfaction of obligations under this GIA. Each Party shall keep such accounts and records for a period equivalent to the audit rights periods described in Article 25.4.

### **25.4 Audit Rights Periods.**

**25.4.1 Audit Rights Period for Construction-Related Accounts and Records.** Accounts and records related to the design, engineering, procurement, and construction of Transmission Owner's Interconnection Facilities, and Network Upgrades shall be subject to audit for a period of twenty-four months following Transmission Owner's issuance of a final invoice in accordance with Article 12.2.

**25.4.2 Audit Rights Period for All Other Accounts and Records.** Accounts and records related to any Party's performance or satisfaction of all obligations under this GIA other than those described in Article 25.4.1 shall be subject to audit as follows: (i) for an audit relating to cost obligations, the applicable audit rights period shall be twenty-four months after the auditing Party's receipt of an invoice giving rise to such cost obligations; and (ii) for an audit relating to all other obligations, the applicable audit rights period shall be twenty-four months after the event for which the audit is sought.

**25.5 Audit Results.** If an audit by a Party determines that an overpayment or an underpayment has occurred, a notice of such overpayment or underpayment shall be given to the other Party together with those records from the audit which support such determination.

## **ARTICLE 26. SUBCONTRACTORS**

**26.1 General.** Nothing in this GIA shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this GIA; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this GIA in providing such services and each Party shall remain primarily liable to the other Parties for the performance of such subcontractor.

**26.2 Responsibility of Principal.** The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this GIA. The hiring Party shall be fully responsible to the other Parties for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall Transmission Owner be liable for the actions or inactions of Interconnection Customer or its subcontractors with respect to obligations of Interconnection Customer under Article 5 of this GIA. Any applicable obligation imposed by this GIA upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

**26.3 No Limitation by Insurance.** The obligations under this Article 26 will not be limited in any way by any limitation of subcontractor's insurance.

## **ARTICLE 27. DISPUTES**

**27.1 Submission.** In the event any Party has a dispute, or asserts a claim, that arises out of or in connection with this GIA or its performance, the Parties agree to resolve such dispute using the dispute resolution procedures of the Tariff.

## **ARTICLE 28. REPRESENTATIONS, WARRANTIES, AND COVENANTS**

**28.1 General.** Each Party makes the following representations, warranties and covenants:

**28.1.1 Good Standing.** Such Party is duly organized, validly existing and in good standing under the laws of the state in which it is organized, formed, or incorporated, as applicable; that it is qualified to do business in the state or states

in which the Generating Facility, Interconnection Facilities and Network Upgrades owned by such Party, as applicable, are located; and that it has the corporate power and authority to own its properties, to carry on its business as now being conducted and to enter into this GIA and carry out the transactions contemplated hereby and perform and carry out all covenants and obligations on its part to be performed under and pursuant to this GIA.

**28.1.2 Authority.** Such Party has the right, power and authority to enter into this GIA, to become a Party hereto and to perform its obligations hereunder. This GIA is a legal, valid and binding obligation of such Party, enforceable against such Party in accordance with its terms, except as the enforceability thereof may be limited by applicable bankruptcy, insolvency, reorganization or other similar laws affecting creditors' rights generally and by general equitable principles (regardless of whether enforceability is sought in a proceeding in equity or at law).

**28.1.3 No Conflict.** The execution, delivery and performance of this GIA does not violate or conflict with the organizational or formation documents, or bylaws or operating agreement, of such Party, or any judgment, license, permit, order, material agreement or instrument applicable to or binding upon such Party or any of its assets.

**28.1.4 Consent and Approval.** Such Party has sought or obtained, or, in accordance with this GIA will seek or obtain, each consent, approval, authorization, order, or acceptance by any Governmental Authority in connection with the execution, delivery and performance of this GIA, and it will provide to any Governmental Authority notice of any actions under this GIA that are required by Applicable Laws and Regulations.

## **ARTICLE 29. JOINT OPERATING COMMITTEE**

**29.1 Joint Operating Committee.** At least six (6) months prior to the expected Initial Synchronization Date, Interconnection Customer, Transmission Owner and Transmission Provider shall each appoint one representative and one alternate to the Joint Operating Committee. Each Party shall notify the other Parties of its appointment in writing. Such appointments may be changed at any time by similar notice. The Joint Operating Committee shall meet as necessary, but not less than once each calendar year, to carry out the duties set forth herein. The Joint Operating Committee shall hold a meeting at the request of any Party, at a time and place agreed upon by the representatives. The Joint Operating Committee shall perform all of its duties consistent with the provisions of this GIA. All Parties shall cooperate in providing to the Joint Operating Committee all information required in the performance of the Joint Operating Committee's duties. All decisions and agreements, if any, made by the Joint Operating Committee, shall be evidenced in writing. The duties of the Joint Operating Committee shall include the following:

**29.1.1** Establish data requirements and operating record requirements.

- 29.1.2** Review the requirements, standards, and procedures for data acquisition equipment, protective equipment, and any other equipment or software.
- 29.1.3** Annually review the one (1) year forecast of maintenance and planned outage schedules of Transmission Owner's and Interconnection Customer's facilities at the Point of Interconnection.
- 29.1.4** Coordinate the scheduling of maintenance and planned outages on the Interconnection Facilities, the Generating Facility and other facilities that impact the normal operation of the interconnection of the Generating Facility to the Transmission System.
- 29.1.5** Ensure that information is being provided by each Party regarding equipment availability.
- 29.1.6** Perform such other duties as may be conferred upon it by mutual agreement of the Parties.

## **ARTICLE 30. MISCELLANEOUS**

- 30.1 Binding Effect.** This GIA and the rights and obligations hereof, shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.
- 30.2 Conflicts.** In the event of a conflict between the body of this GIA and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this GIA shall prevail and be deemed the final intent of the Parties.
- 30.3 Rules of Interpretation.** This GIA, unless a clear contrary intention appears, shall be construed and interpreted as follows: (1) the singular number includes the plural number and vice versa; (2) reference to any person includes such person's successors and assigns but, in the case of a Party, only if such successors and assigns are permitted by this GIA, and reference to a person in a particular capacity excludes such person in any other capacity or individually; (3) reference to any agreement (including this GIA), document, instrument or tariff means such agreement, document, instrument, or tariff as amended or modified and in effect from time to time in accordance with the terms thereof and, if applicable, the terms hereof; (4) reference to any Applicable Laws and Regulations means such Applicable Laws and Regulations as amended, modified, codified, or reenacted, in whole or in part, and in effect from time to time, including, if applicable, rules and regulations promulgated thereunder; (5) unless expressly stated otherwise, reference to any Article, Section or Appendix means such Article of this GIA or such Appendix to this GIA, or such Section to the GIP or such Appendix to the GIP, as the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this GIA as a whole and not to any particular Article or other provision hereof or thereof; (7) "including" (and with correlative meaning "include") means including without limiting the generality of any description preceding such term; and (8) relative to the determination of any period of time, "from" means "from and including", "to" means "to but excluding" and "through" means "through and including".



- 30.4 Entire Agreement.** This GIA, including all Appendices and Schedules attached hereto, constitutes the entire agreement among the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, among the Parties with respect to the subject matter of this GIA. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, a Party's compliance with its obligations under this GIA.
- 30.5 No Third Party Beneficiaries.** This GIA 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.
- 30.6 Waiver.** The failure of a Party to this GIA to insist, on any occasion, upon strict performance of any provision of this GIA will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.
- Any waiver at any time by a Party of its rights with respect to this GIA shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this GIA. Termination or Default of this GIA for any reason by Interconnection Customer shall not constitute a waiver of Interconnection Customer's legal rights to obtain an interconnection from Transmission Provider. Any waiver of this GIA shall, if requested, be provided in writing.
- 30.7 Headings.** The descriptive headings of the various Articles of this GIA have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this GIA.
- 30.8 Multiple Counterparts.** This GIA may be executed in three or more counterparts, each of which is deemed an original but all constitute one and the same instrument.
- 30.9 Amendment.** The Parties may by mutual agreement amend this GIA by a written instrument duly executed by each of the Parties.
- 30.10 Modification by the Parties.** The Parties may by mutual agreement amend the Appendices to this GIA by a written instrument duly executed by the Parties. Such amendment shall become effective and a part of this GIA upon satisfaction of all Applicable Laws and Regulations.
- 30.11 Reservation of Rights.** Transmission Provider shall have the right to make a unilateral filing with FERC to modify this GIA with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation under Section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder, and Interconnection Customer shall have the right to make a unilateral filing with FERC to modify this GIA pursuant to Section 206 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder; provided that each Party shall have the right to protest any such filing by another Party and to

participate fully in any proceeding before FERC in which such modifications may be considered. Nothing in this GIA shall limit the rights of the Parties or of FERC under Sections 205 or 206 of the Federal Power Act and FERC's rules and regulations thereunder, except to the extent that the Parties otherwise mutually agree as provided herein.

**30.12 No Partnership.** This GIA shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership among the Parties or to impose any partnership obligation or partnership liability upon any Party. No 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, another Party.

IN WITNESS WHEREOF, the Parties have executed this GIA in triplicate originals, each of which shall constitute and be an original effective Agreement among the Parties.

APPROVED  
TK  
BY

**SOUTHWEST POWER POOL, INC.**

By: [Signature]  
Printed Name: Carl Monroe  
Title: EVP & COO  
Date: 07/15/2016

**TRANSOURCE MISSOURI, LLC**

By: [Signature]  
Printed Name: TODD E. FRIDLEY  
Title: VICE PRESIDENT  
Date: 7/6/2016

**OSBORN WIND ENERGY, LLC**

By: [Signature]  
Printed Name: John DiDonato  
Title: Vice President, Development  
Date: 7/1/2016

## APPENDIX A TO GIA

### Interconnection Facilities, Network Upgrades and Distribution Upgrades

NOTE: The facilities described in these Appendices are based on the studies conducted in response to the Interconnection Request GEN-2015-005, also known as IFS-2015-001-04.

#### 1. Interconnection Facilities:

**(a) Interconnection Customer's Interconnection Facilities:** Interconnection facilities that are to be designed, procured, constructed, installed, maintained, and owned by Interconnection Customer at its sole expense:

- 34.5 kV underground cable collection circuits;
- The Generating Facility collector and step-up substation including 34.5 kV to 345 kV transformation equipment and associated 34.5 kV and 345 kV "Open Air" bus configuration and circuit breakers;
- The Interconnection Customer's 345 kV collection substation shall be connected via a string bus to the Point of Change of Ownership at Transmission Owner's Ketchem switching station. Interconnection Customer's 345 kV line will terminate on Transmission Owner's dead-end structure adjacent to the Point of Interconnection ("POI"). Forty eight (48) single mode communication fibers shall connect the Interconnection Customer's 345 kV collection substation and the Transmission Owner's Ketchem switchyard;
- Reactive power compensation equipment to maintain 95% lagging (providing vars) and 95% leading (absorbing vars) power factor at the POI including approximately 3.1 Mvars of shunt reactor(s) to control the injection of reactive power into the transmission system under light wind or zero generation conditions. Any capacitor banks installed by the Interconnection Customer shall not cause voltage distortion and be in accordance with Article 9.7.6;
- All necessary relay, protection, control and communication systems required to protect Interconnection Customer's Interconnection Facilities and Generating Facility shall be agreed upon by the Interconnection Customer and the Transmission Owner in order to coordinate operationally with Transmission Owner's relay, protection, control, and communication systems;
- All-dielectric fiber optic station entrance system including fiber distribution panel at the Interconnection Customer's step-up substation; and
- The Interconnection Customer communications facilities described below and in Appendices C and D will be paid for, and installed by Interconnection Customer. The data circuits described below shall be used to provide the necessary generator data, other status data and remote interrogation and control to Transmission Provider and Transmission Owner as set forth in Appendices C and D:
  - (a) One or more dial-up circuits, including associated interface equipment at the Generating Facility and/or Point of Interconnection;

- (b) One Remote Terminal Unit (“RTU”) communications circuit between the Transmission Owner’s interconnection switching station, and the step-up substation; via fiber in Optical Ground Wire (“OPGW”) between the stations; and
- (c) Demarcation equipment (telephone company interface box) at the Interconnection Customer’s step-up substation for demarcation of telephone company circuits.

**(b) Transmission Owner’s Interconnection Facilities:** Interconnection facilities that are to be maintained, owned and/or controlled by Transmission Owner at Interconnection Customer’s sole expense. Interconnection Customer agrees to design, procure, construct and install the following Transmission Owner’s Interconnection Facilities according to Transmission Owner’s specifications and the terms of Section 6 of this Appendix A. Interconnection Customer agrees to transfer ownership, operational control and maintenance of these facilities to Transmission Owner prior to energizing the facilities as described in Section 6 of this Appendix A. (Figure A-1 provides an overview of the Transmission Owner’s Interconnection Facilities.):

- i. Transmission Owner Ketchum Switching Station –
  - Install a 345 kV dead-end structure and disconnect switch at the substation for the 345 kV string bus from the Interconnection Customer’s Osborn collector substation;
  - Install revenue metering facilities including 345 kV CTs and PTs at the POI. Transmission Owner to install revenue meter;
  - Transmission Owner will provide Interconnection Customer with access to interconnect meter data via fiber in OPGW between Transmission Owner’s interconnection switching station and Interconnection Customer’s step-up substation; and
  - Install entrance duct at the POI to accommodate communication fiber from the Interconnection Customer’s step-up substation, adequate space in the POI control building to accommodate Interconnection Customer’s fiber and splice termination equipment, and associated equipment.

|                 |              |
|-----------------|--------------|
| Estimated Cost: | \$ 1,000,000 |
|-----------------|--------------|

|  |                            |
|--|----------------------------|
| <b><u>Total Costs of Transmission Owner’s Interconnection Facilities</u></b> | <b><u>\$ 1,000,000</u></b> |
|--|----------------------------|

## 2. Network Upgrades:

**(a) Stand Alone Network Upgrades:** The following Stand Alone Network Upgrades are to be designed, procured, constructed and installed by Interconnection Customer according to Transmission Owner’s specifications and the terms of Section 6 of this Appendix A. Interconnection Customer agrees to transfer ownership, operational control and maintenance of these facilities to Transmission Owner prior to energizing the facilities as described in Section 6 of this Appendix A (Figure A-1 provides an overview of the Stand Alone Network Upgrades.).

- Transmission Owner Ketchem 345 kV Interconnection Switching Station (See Figure A-1): Construct the 345 kV Ketchem switching station including a three breaker ring bus configured for future expansion. The substation shall have a 3000 Amp continuous rating and have the capability of interrupting 50,000 Amps of fault current. The Ketchem switching station will be located on a property site acceptable to the Transmission Owner in the vicinity of structures (490/491) of the Transmission Owner's transmission line – the Midwest Transmission Project (Nebraska City – Mullin Creek - Sibley 345 kV line) currently under construction with a proposed in-service date of December 31, 2016. The Ketchem switching station will have line terminals for transmission lines to a) the Sibley 345 kV substation located in Sibley, Missouri and owned by KCP&L Greater Missouri Operations Company ("KCP&L GMO"), b) the Mullin Creek 345 kV substation located near Maryville, Missouri and owned by Interconnection Customer and c) the Interconnection Customer's Osborn collector substation. The Ketchem switching station will include three (3) 3000A circuit breakers, disconnect switches, line relaying, metering, monitoring equipment (DFR), RTU, enclosed control enclosure, substation batteries and all associated and miscellaneous equipment.

Estimated Cost: \$ 15,755,000

**Total Costs of Stand Alone Network Upgrades** \$ 15,755,000

**(b) Network Upgrades constructed by Transmission Owner:** Network Upgrades that are to be designed, procured, constructed, installed and owned by the Transmission Owner and are 100% cost responsibility of the Interconnection Customer (Figure A-1 provides an overview of the Network Upgrades.):

- i. Install turning & tangent structures to connect the Mullin Creek – Sibley 345 kV transmission line in and out of the new Ketchem switching station.

Estimated Cost \$1,315,000

- ii. Develop relay settings and perform relay testing at Mullin Creek Substation

Estimated Cost \$30,000

- iii. Develop relay settings and perform relay testing at Ketchem switching station

Estimated Cost \$170,000

- iv. Procure and install security system at Ketchem switching station

Estimated Cost \$400,000

- v. Test and install RTU telecommunications at Ketchem switching station

|                |          |
|----------------|----------|
| Estimated Cost | \$35,000 |
|----------------|----------|

- vi. Engineering support, project oversight and construction supervision of Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades constructed by Interconnection Customer

|                |          |
|----------------|----------|
| Estimated Cost | \$75,000 |
|----------------|----------|

- vii. Test metering at Ketchem switching station

|                |          |
|----------------|----------|
| Estimated Cost | \$50,000 |
|----------------|----------|

|   |                            |
|---|----------------------------|
| <b><u>Total Transmission Owner Network Upgrades</u></b> | <b><u>\$ 2,075,000</u></b> |
|---|----------------------------|

- (c) **Network Upgrades constructed by other transmission owning entity:** Network Upgrades that are to be designed, procured, constructed, installed and owned by another transmission owning entity to be completed under a Notification to Construct (“NTC”) issued by Transmission Provider in accordance with Attachment O of the Tariff:

(i) **Network Upgrades assigned to KCP&L GMO**

- **Sibley 345 kV Substation:** Verify relay settings are compatible with relays at Transmission Owner’s Ketchem switching station.

|                |           |
|----------------|-----------|
| Estimated Cost | \$ 30,000 |
|----------------|-----------|

|   |                         |
|---|-------------------------|
| <b><u>Total Other Transmission Owner Network Upgrades</u></b> | <b><u>\$ 30,000</u></b> |
|---|-------------------------|

- (d) **Shared Network Upgrades:** Network Upgrade that is needed for the interconnection of multiple Interconnection Customers’ Generating Facilities and which is the shared funding responsibility of such Interconnection Customers that may also benefit other Interconnection Customer(s) that are later identified as beneficiaries. These Shared Network Upgrades may be constructed by the Transmission Owner or another transmission owning entity as identified:

(i) **Transmission Owner Shared Network Upgrades:**

- None

(ii) **Other Transmission Owning Entity Shared Network Upgrades:**

- None

(e) **Previous Network Upgrades:** Network Upgrade that is needed for the interconnection of one or more Interconnection Customers' Generating Facilities, but is not the cost responsibility of the Interconnection Customer, subject to restudy:

(i) The following Network Upgrades, or their equivalents, are required to be in service prior to the Commercial Operating Date of the Generating Facility:

- Nebraska City – Mullin Creek – Sibley 345KV circuit # 1 assigned as Transmission Provider Priority Projects per SPP-NTC-20097 and 20098. This project is currently on schedule for 12/31/2016 in service.

(f) **Affected System Network Upgrades:**

(i) None for this GIA.

### 3. Summary of Generation Interconnection Costs Under this Agreement:

(a) **Transmission Owner Interconnection Facilities:** The cost for the Transmission Owner's Interconnection Facilities to be constructed by Interconnection Customer is estimated at \$1,000,000.

(b) **Network Upgrades:** The portion of the Network Upgrades and the Stand Alone Network Upgrades that could be subject to the transmission service credits described in Article 11.5 of this Agreement is estimated at \$17,860,000 which will be adjusted for actual costs and expenses incurred in accordance with Article 11.5.

(c) **Total Interconnection Costs:** The Interconnection Customer is responsible for the total costs of Transmission Owner Interconnection Facilities, Stand Alone Network Upgrades, Network Upgrades and Other Transmission Owner Network Upgrades estimated at \$18,860,000. Payment is pursuant to the payment schedule in Appendix B, Milestones. The Interconnection Customer has selected the Option to Build for the Transmission Owner Interconnection Facilities in Section 1(b) and Stand Alone Network Upgrades in Section 2(a) of this Appendix A that have a combined estimated cost of \$16,755,000.

(d) **Initial Payment:** The Initial Payment is the estimated cost of the Network Upgrades constructed by Transmission Owner (\$2,075,000) and will be invoiced and paid according to the Milestone Schedule in Appendix B.

(e) **Taxes, Interests and/or Penalties:** Interconnection Customer's liability for reimbursement of Transmission Owner for taxes, interest and/or penalties under Article 5.17.3 is estimated at \$0. This estimate assumes that there are no costs incurred by the Transmission Owner for land.

(f) **Final Invoice:** All cost estimates will be trued up for actual costs and expenses for purposes of final billing under Article 12.2.

### 4. Distribution Upgrades:



- None

## **5. Interconnection Service:**

Interconnection Customer has requested the following (from Appendix 1 of the GIP):

200.1 MW Energy Resource Interconnection Service – OR –

0.0 MW Network Resource Interconnection Service

The total amount of Interconnection Service is 200.1 MW.

## **6. Construction Option Selected by Customer:**

Interconnection Customer has selected the Option to Build for construction of the Transmission Owner's Interconnection Facilities identified in Section 1(b) above and the Stand Alone Network Upgrades identified in Section 2(a) above. Interconnection Customer agrees to design and construct such facilities in accordance with Transmission Owner's oversight and specifications and to follow the Project Development and Coordination Milestone Schedule in Exhibit C.

Interconnection Customer and Transmission Owner agree to negotiate in good faith to execute such other agreements as may be necessary to accomplish the transfer ownership of the Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades from Interconnection Customer to Transmission Owner. Interconnection Customer agrees to transfer ownership and operational control of such facilities, including any associated land or land rights, to Transmission Owner prior to energization of Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades. Any such transfer is subject to completion of inspections and testing to the satisfaction of Transmission Owner and is further subject to the parties obtaining any necessary governmental or other third party approvals.

Notwithstanding any other provision in this GIA, in the event that Transmission Owner does not obtain all permits necessary, including if necessary any Certificate of Convenience and Necessity ("CCN") from the State of Missouri, to take ownership of and operate the Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades, then Interconnection Customer shall have the right to continue to own and, if necessary, operate these facilities until such time that Transmission Owner obtains the required Permits.

In the event that Interconnection Customer elects to proceed with design, procurement and construction of the Transmission Owners Interconnection Facilities and the Stand Alone Network Upgrades prior to Transmission Owner receiving all necessary permits, including any CCN, Interconnection Customer shall be solely responsible for the cost of any changes to the location, design or configuration, etc., of the facilities resulting from the process of obtaining the necessary permits, including any CCN. If Interconnection Customer desires to own and/or operate the Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades after the facilities are energized, Interconnection Customer must first have all permits, certificates or other approvals, regulatory or otherwise, giving it the authority to do so. Interconnection Customer acknowledges that if the transfer occurs after energization, the transfer will be subject to Transmission Owner obtaining approval of FERC

to acquire the facilities in addition to any other regulatory or third party required for the transfer.

Interconnection Customer agrees to (a) use contractors, equipment manufacturers and vendors that are approved by Transmission Owner; and (b) negotiate commercially appropriate terms (including warranties and indemnities) with such contractors, equipment manufacturers and vendors. Interconnection Customer shall exercise commercially reasonable efforts to negotiate warranties that are assignable to Transmission Owner.

Interconnection Customer must obtain or arrange to obtain at its expense all necessary permits and authorizations for the construction and installation of Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades.

Interconnection Customer shall coordinate with Transmission Owner prior to the acquisition of any real estate interests. Interconnection Customer shall use agreements and other instruments that are reasonably acceptable to Transmission Owner.

In addition to the site access granted under Section 5.2(5) of the Agreement, Interconnection Customer will allow Transmission Owner to have an on-site inspector to observe all construction activities for the Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades and Interconnection Customer agrees to coordinate such activities with the on-site inspector.

Interconnection Customer shall notify Transmission Owner of the actual installed cost of the Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades according to the Milestone Schedule in Appendix B, provided, however, that the actual installed cost will not include any 'premiums' paid by Interconnection Customer to accelerate the project. Interconnection Customer shall include sufficient details supporting the actual cost to enable Transmission Owner to compare the actual costs with the estimates and to ascertain deviations, if any, from the cost estimates. The Stand Alone Network Upgrades will be subject to the transmission service credits described in Article 11.5 of this Agreement based on the actual installed cost. Interconnection Customer agrees that Transmission Owner does not owe a cash payment for the transfer of ownership of the Transmission Owner's Interconnection Facilities constructed by Interconnection Customer.

## **7. Permits, Licenses, and/or Authorizations:**

Interconnection Customer shall obtain the necessary permits, licenses and authorizations for the generating facility to be constructed and operated.

See Appendix B.

## **8. Description of the Point of Change of Ownership:**

The Point of Change of Ownership shall be the point where Interconnection Customer's 345 kV string bus attaches to Transmission Owner's dead-end structure(s) at the new Ketchem switching station. The Point of Change of Ownership is located in Dekalb County, Missouri.

## **9. Description of the Point of Interconnection:**

The Point of Interconnection will be at the point where the 345 kV circuit from the Generating Facility is attached to the 345 kV ring bus at the new Ketchem switching station, as shown in Figure A-1. The Point of Interconnection is located in Dekalb County, Missouri.

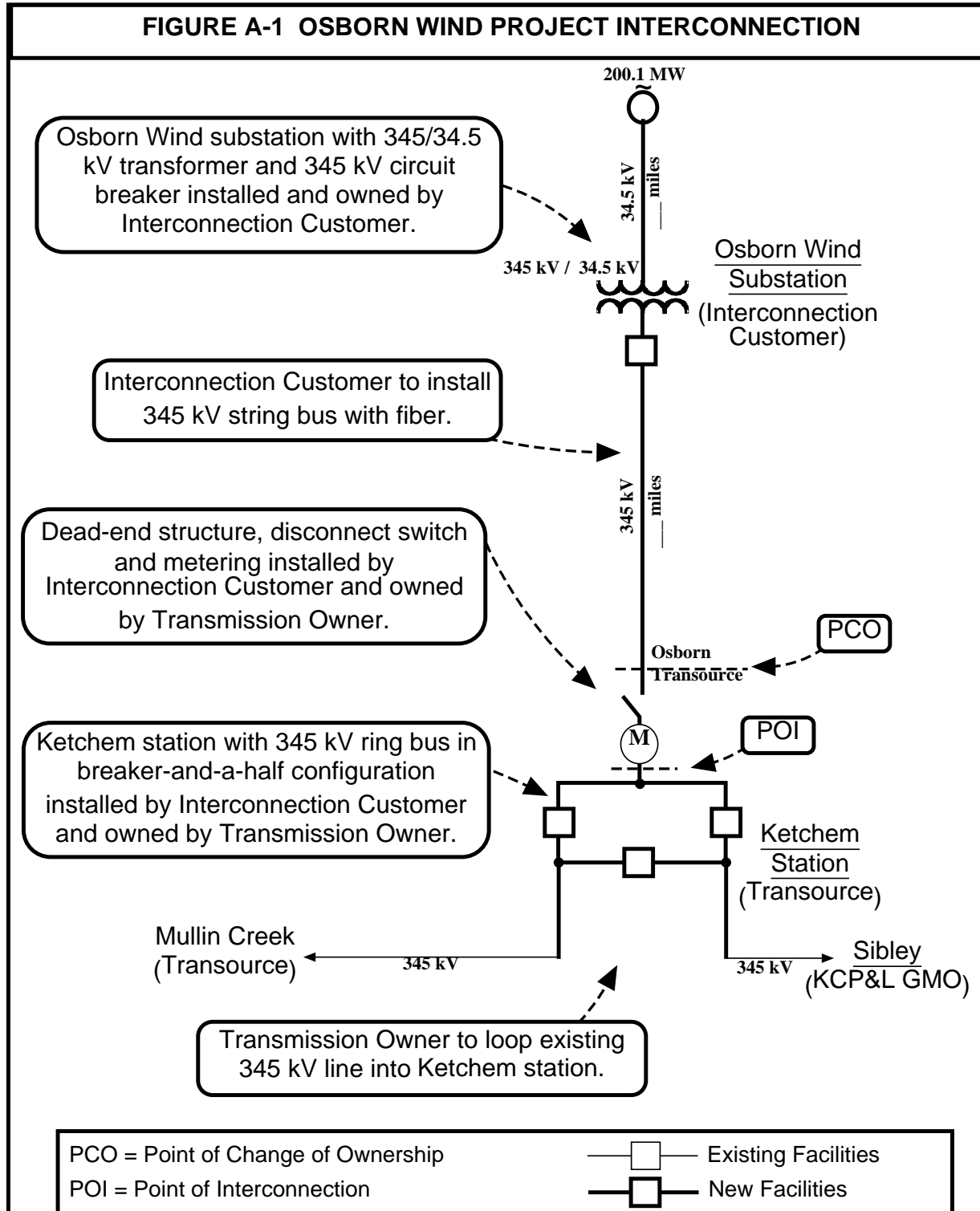
## **10. Metering and Loss Adjustment:**

The interconnection metering will be located at the Ketchem switching station on the line from Interconnection Customer's collector station. The interconnection metering is effectively at the Point of Interconnection, so the metered values will not require compensation for losses to the Point of Interconnection.

## **11. Higher-Queued Interconnection Customers:**

- GEN-2014-021

## 12. Diagrams and Figures:



## APPENDIX B TO GIA

### Milestones

| Item | Action  | Responsible Party   | Completion Date                                    |
|------|---|---|--|
| 1    | Provide \$1,000/MW (Provided as Cash) to Transmission Provider per DISIS Security Deposit requirements, totaling \$250,000.   | Interconnection Customer  | Completed 3/25/2015                                |
| 2    | Provide \$3,000/MW (Provided as Letter of Credit) to Transmission Provider per IFS Security Deposit requirements, totaling \$750,000.   | Interconnection Customer  | Completed 8/28/2015                                |
| 3    | Complete Interconnection Facilities Study for GEN-2015-005  | Transmission Provider   | Completed 2/25/2016                                |
| 4    | Provide written authorization to Transmission Owner to proceed with design, procurement and construction of the Network Upgrades.   | Interconnection Customer  | 1 week after Effective Date.                       |
| 5    | Issue Initial Payment invoice to Interconnection Customer for \$2,075,000.  | Transmission Owner  | 2 weeks after Effective Date                       |
| 6    | Pay Initial Payment invoice for \$2,075,000 to Transmission Owner.  | Interconnection Customer  | 30 days after invoice                              |
| 7    | Release Letter of Credit being held from Interconnection Customer   | Transmission Provider   | Upon completion of Initial Payment in Milestone 6. |
| 8    | Obtain Governmental Authorizations (as necessary), including CCN for ownership and operation of Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades. | Interconnection Customer and Transmission Owner<br><br>CCN responsibility of Transmission Owner | As necessary                                       |
| 9    | Issue Notification to Construct to KCP&L GMO for Network Upgrades listed in Appendix A.2.(c).   | Transmission Provider   | 1 month after Effective Date                       |
| 10   | Provide payment to KCP&L GMO in the amount of \$30,000 for Network Upgrades listed in Appendix A.2.(c).   | Interconnection Customer  | 2 months after Effective Date                      |
| 11   | Provide modeling information for system planning studies (dynamic, stability, switching and short circuit) in accordance with Article 5.10.4.   | Interconnection Customer  | March 31, 2016                                     |

|    |   |   |   |
|----|---|---|---|
| 12 | Complete registration of the Generating Facility as a market asset in the Transmission Provider's Integrated Marketplace in accordance with Attachment AE of the Tariff and the Transmission Provider's Market Protocols.                                       | Interconnection Customer (if applicable)        | Registration process must be completed prior to energization of the interconnection and applicable resources for either generation testing or commercial operation. |
| 13 | Complete Stand Alone Network Upgrades and Transmission Owner's Interconnection Facilities, listed in Appendix A, Item 2 (a).  | Interconnection Customer                        | September 30, 2016  |
| 14 | Complete Network Upgrades listed in Appendix A, Item 2(b).  | Transmission Owner                              | December 31, 2016   |
| 15 | Complete other Network Upgrades listed in Appendix A.2.(c).   | Transmission Provider                           | December 31, 2016   |
| 16 | Transfer ownership, operational control and maintenance of the Transmission Owner's Interconnection Facilities and the Stand Alone Network Upgrades from Interconnection Customer to Transmission Owner.  | Interconnection Customer and Transmission Owner | Prior to energizing Transmission Owner's Interconnection Facilities   |
| 17 | Energize Interconnection Customer's Interconnection Facilities (In-Service Date)  | Interconnection Customer                        | December 31, 2016   |
| 18 | Initial Synchronization Date  | Interconnection Customer                        | January 2, 2017   |
| 19 | Begin trial operation & testing per Article 6.1   | Interconnection Customer and Transmission Owner | January 2, 2017   |
| 20 | Commercial Operation Date   | Interconnection Customer                        | February 2, 2017  |
| 21 | Final accounting of costs incurred by Transmission Owner for the Network Upgrades constructed by Transmission Owner. Interconnection Customer responsible for actual costs identified in Appendix A.  | Transmission Owner                              | 6 months after In-Service Date  |
| 22 | Final accounting and true-up of costs incurred by Interconnection Customer for Transmission Owner's Interconnection Facilities and Stand Alone Network Upgrades constructed by Interconnection Customer. Interconnection Customer responsible for actual costs. | Interconnection Customer                        | 6 months after In-Service Date  |

|    |   |  |   |
|----|---|--|---|
| 23 | Payment of any balance due or refund of excess paid, based on final accounting of costs | Interconnection Customer, Transmission Provider or Transmission Owner, as applicable | 2 months following completion of final accounting of costs for Transmission Owner's Interconnection Facilities. |
|----|---|--|---|

## **APPENDIX C TO GIA**

### **Interconnection Details**

This Appendix C is an integral part of the Interconnection and Operating Agreement among the Interconnection Customer, Transmission Provider and Transmission Owner.

#### **1. Description of Generating Facility:**

Interconnection Customer's Generating Facility will be located in Dekalb, County, Missouri and will consist of ninety two (92) G.E. 2.0MW and nine (9) G.E. 1.79MW wind turbines for a total 200.1MW. The Interconnection Customer step-up substation will include 345 kV circuit breaker(s) and 345/34.5 kV transformer(s). The wind turbines will be equipped with the manufacturer's low voltage ride package to meet the requirements of Appendix G. The customer is required to meet 0.95 lagging (providing vars) and 0.95 leading (absorbing vars) power factor at the Point of Interconnection. To prevent reactive power injection into the transmission system at the point of interconnection during low wind and zero generation scenarios, the Generating Facility will use either a 34.5kV shunt reactor or implement GE's WindFree turbine option. Additionally, the Interconnection Customer will be required to install any equipment necessary to meet the voltage schedule requirements in Article 9.6.2 of this Agreement.

#### **2. Point of Change of Ownership:**

Refer to Appendix A, Section 8 for Point of Change of Ownership.

#### **3. Point of Interconnection:**

Refer to Appendix A, Section 9 for Point of Interconnection.

#### **4. Transmission Owner Specific Interconnection Requirements:**

The unique requirements of each generation interconnection will dictate the establishment of mutually agreeable Interconnection Guidelines that further define the requirements of this Interconnection and Operating Agreement. The Interconnection Guidelines will address, but not be limited to, the following:

##### **(a) Auxiliary Power;**

Interconnection Customer will arrange for auxiliary power as allowed, for periods when the Generating Facility is not generating.

##### **(b) Capacity determination and verification (including ancillary services and certification);**

If Interconnection Customer seeks to provide ancillary services, Interconnection Customer will obtain certification under the requirements of the Transmission Provider.

##### **(c) Data reporting requirements;**

As required by NERC Operating Policies, Transmission Provider Criteria, Transmission Provider Integrated Marketplace Protocols, applicable Balancing Authority, and responsible reliability entities. The Interconnection Customer shall provide total



production (instantaneous and integrated real and reactive power) data to the Transmission Owner as mutually agreed between the Transmission Owner and the Interconnection Customer. In no case shall the Transmission Owner be required to provide real-time or integrated total production data or operating data to any party other than the Transmission Provider and the Balancing Authority. Furthermore, the Transmission Owner shall have no obligation to provide any data related to customer-specific allocation of real or reactive power production data to any customers of the Interconnection Customer or any other party.

The Interconnection Customer shall make other operating data available to the SCADA system of the Transmission Owner, utilizing the communications channel connecting the Interconnection Customer's Interconnection Facilities to the Transmission Owner's Interconnection Facilities. Such operating data shall include the status of the transformer breaker(s), transmission level and collector level bus voltages, and the status of any other reactive device switching equipment located at the Interconnection Customer's Interconnection Facilities.

As the owner and operator of the wind generating facility, the Interconnection Customer shall register with NERC as a generation owner and generation operator as applicable, and comply with all NERC planning and operating criteria and Transmission Provider Criteria.

**(d) Grounding Requirements;**

Interconnection Customer shall tie the ground for its transmission line to the ground grid of the Transmission Owner's Point of Interconnection substation at a point provided by the Transmission Owner.

**(e) Maintenance and Testing;**

Transmission Owner will provide Interconnection Customer 30 days' notice for planned maintenance and testing that will affect the ability of the generator to remain interconnected to the transmission system. For emergency maintenance and testing, the Transmission Owner will provide notice as soon as the Owner is aware of the need for the emergency maintenance and testing. The Interconnection Customer will provide the Transmission Owner 30 days' notice of an outage of the Interconnection Customer facilities that will require electrical clearance at the Interconnection Facility. In the event of the need for an emergency outage of the Generator Facilities, the Interconnection Customer will provide the Transmission Owner notice of the need for electrical clearance as soon as the Interconnection Customer is aware of the need for the outage. Nothing in this paragraph prohibits the Transmission Owner or the Interconnection Customer from opening their respective connection facilities without notice in the event of an Emergency Condition.

**(f) Provision of ancillary services;**

Nothing in this Agreement should be construed as obligating Transmission Owner to provide Ancillary Services to Interconnection Customer. Ancillary Services necessary to deliver the energy produced by the Generator Facilities over the Transmission System, if any, will be provided to Interconnection Customer or any entity purchasing or otherwise

acquiring energy generated by the Generator Facilities pursuant to the provisions of the Transmission Provider's Open Access Transmission Tariff or any successor tariff.

**(g) Modeling Requirements;**

In accordance with Article 5.10.4, the Interconnection Customer agrees to provide updated available detailed wind turbine/generator (individually) models for system planning studies (dynamic, stability, switching, short circuit) to the Transmission Owner 180 days prior to the Initial Synchronization Date set forth in Appendix B Milestones. Interconnection Customer agrees to provide updated information to the Transmission Owner when such information is available.

**(h) Meteorological and Wind Data Requirements;**

In accordance with Article 8.4, the Interconnection Customer agrees to provide site specific meteorological information and wind turbine/generator availability and capability to the Transmission Provider and Transmission Owner. The provision of this information will be consistent with the final FERC rule for Docket No. RM10-11-000 and any Transmission Provider RTO adopted rules, process, procedures and criteria including Transmission Provider Integrated Marketplace Protocols. All Transmission Providers, market participants, and Interconnection Customers interconnected to the Transmission System will be expected to meet basic standards for system infrastructure and operational security, including physical, operational, and cyber-security practices.

**(i) Wind Generating Facility Output Reduction;**

To protect the reliability of the Transmission System, a Generating Facility that is a wind plant shall be capable of reducing its generation output in increments of no more than fifty (50) MW in five (5) minute intervals. The requirements may be met by using: (a) SCADA control of circuit breakers protecting wind farm collector distribution circuits, (b) automatic control of wind turbine power output, or (c) a combination of (a) and (b).

**5. Transmission Owner Conditions of Interconnection:**

Interconnection Customer agrees to construct the Interconnection Customer's Interconnection Facilities in compliance with the latest revision of the "*Transmission Facility Connection Requirements*", available at:

<http://www.kcpl.com/~media/Files/About%20KCPL/4541%20%20New%20Construction%20Transmission%20Facility%20Connection.pdf>

This document describes the requirements for connecting new generation to the Transmission Owner's affiliate operating companies' transmission systems including technical, protection, commissioning, operation, and maintenance. Interconnection Customer agrees to comply with all applicable criteria, guidelines, standards, requirements, regulations, and procedures issued by the NERC, Transmission Provider, and Federal Energy Regulatory Commission or their successor organizations. In addition, the Interconnection Customer is responsible to register their facility in accordance with any governing rules, including NERC's Rules of Procedure, and thereafter, to comply with the requirements applicable to the functions for

which the Generator registers, unless otherwise agreed to and permitted by the NERC Rules of Procedure or other NERC guidance.

## 6. Project Development and Coordination Milestones

Interconnection Customer agrees to provide timely information to Transmission Owner on each of the milestones listed below for Transmission Owner to review and accept. Transmission Owner will review the information provided and, within four (4) weeks, notify Interconnection Customer if the item is acceptable. If an item is not acceptable, Transmission Owner will notify Interconnection Customer the reason for not accepting the item and will indicate what steps are necessary to make the item acceptable. Transmission Owner's acceptance of submitted information does not relieve Interconnection Customer from liability resulting from errors or omissions related to such work or impose any liability on Transmission Owner for any such errors or omissions.

| <b>PROJECT DEVELOPMENT AND COORDINATION MILESTONES</b>   |   |
|--|---|
| <b>Activity</b>  | <b>Due Date</b>                           |
| Acquire Ketchem Switching Station Property   | Complete                                  |
| Environmental Studies:<br>- Perform all applicable environmental studies   | 3 months after Effective Date.            |
| Engineering Deliverables:<br>- 30% design submittal: Conceptual (preliminary) design package, including but not limited to design memo, one-line diagram, substation layout, overall site layout, permitting requirements and equipment draft specifications.  | Completed January 2016                    |
| 60% Design package, including but not limited to site development package, equipment procurement packages, below grade design package with calculations, above grade design package with calculations, protection and control design package, construction contract bid technical specifications draft and updates to design memo. | Completed February 2016                   |
| 90% Design package, including but not limited to updates to the 60% design package, all connection diagrams, all procurement delivery schedules and updates to construction contract bid technical specifications.   | Completed June 10, 2016                   |
| 100% design submittal Final design package, including but not limited to updates to the 90% design package submittal and final construction contract bid technical specifications.   | 2 months after effective date             |
| Transmission Owner testing and commissioning of Ketchem switching station.   | December 31, 2016                         |
| As-built drawings  | 2 months after Commercial Operation Date. |

## **APPENDIX D TO GIA**

### **Security Arrangements Details**

Infrastructure security of Transmission System equipment and operations and control hardware and software is essential to ensure day-to-day Transmission System reliability and operational security. FERC will expect all Transmission Providers, market participants, and Interconnection Customers interconnected to the Transmission System to comply with the recommendations offered by the President's Critical Infrastructure Protection Board and, eventually, best practice recommendations from the electric reliability authority. All public utilities will be expected to meet basic standards for system infrastructure and operational security, including physical, operational, and cyber-security practices.

**APPENDIX E TO GIA**  
**Commercial Operation Date**

**[Date]**

Tessie Kentner  
Attorney  
Southwest Power Pool, Inc.  
201 Worthen Drive  
Little Rock, AR 72223-4936

Director, Transmission and Interconnection Services  
American Electric Power Service Corporation  
212 East Sixth Street  
Tulsa, OK 74119-1295

Jay Patel, Manager Transmission Operations  
Kansas City Power & Light  
P.O. Box 418679  
Kansas City, MO 64141

Re: Osborn Wind Energy, LLC Generating Facility (GEN-2015-005)

Dear Mrs. Kentner, Mr. Pennybaker and Mr. Patel:

On **[Date]** Osborn Wind Energy, LLC (“Osborn Wind”) completed Trial Operation of the referenced Generating Facility. This letter confirms that Osborn Wind commenced Commercial Operation of the Generating Facility effective as of **[Date plus one day]**.

Thank you.

**[Signature]**

John DiDonato  
Osborn Wind Energy, LLC  
c/o NextEra Energy  
700 Universe Blvd.  
Juno Beach, FL 33408-2683

## **APPENDIX F TO GIA**

### **ADDRESSES FOR DELIVERY OF NOTICES AND BILLINGS**

#### **Notices:**

##### Transmission Provider:

Tessie Kentner  
Attorney  
Southwest Power Pool, Inc.  
201 Worthen Drive  
Little Rock, AR 72223-4936  
Phone: 501-688-1782  
Email: tkentner@spp.org

##### Transmission Owner:

Todd Fridley  
Vice-President  
Transource Missouri, LLC  
1200 Main Street, 28<sup>th</sup> Floor  
Kansas City, MO 64105  
Phone: 816-654-1811  
Email: todd.fridley@kcpl.com

#### With a copy to:

Director, Transmission and Interconnection Services  
American Electric Power Service Corporation  
212 East 6<sup>th</sup> Street  
Tulsa, OK 74119-1295  
Telephone: 918-599-2723  
Email: rlpennybaker@aep.com

##### Interconnection Customer:

Business Manager  
Osborn Wind Energy, LLC  
c/o NextEra Energy  
700 Universe Blvd.  
Juno Beach, FL 33408

**Billings and Payments:** [Specify addresses for construction invoices, O&M invoices and settlement of ancillary services]

Transmission Provider:

Supervisor of Transmission Settlements  
Southwest Power Pool, Inc.  
201 Worthen Drive  
Little Rock, AR 72223-4936

Transmission Owner:

Transource Missouri, LLC  
1 Riverside Plaza, 25<sup>th</sup> Floor  
Columbus, OH 43215  
Email: Transource\_invoice@aep.com

With copy to:

Director, Transmission and Interconnection Services  
American Electric Power Service Corporation  
212 East Sixth Street  
Tulsa, OK 74119-1295  
Phone: 918-599-2723  
E-mail: rlpennybaker@aep.com

Interconnection Customer:

Business Manager  
Osborn Wind Energy, LLC  
c/o NextEra Energy  
700 Universe Blvd.  
Juno Beach, FL 33408

**Alternative Forms of Delivery of Notices (telephone, facsimile or email):**

Transmission Provider:

Tessie Kentner  
Attorney  
Southwest Power Pool, Inc.  
201 Worthen Drive  
Little Rock, AR 72223-4936  
Phone: 501-688-1782  
Email: tkentner@spp.org

Transmission Owner:

Todd Fridley  
Vice-President  
Transource Missouri, LLC  
1200 Main Street, 28<sup>th</sup> Floor  
Kansas City, MO 64105  
Phone: 816-654-1811  
Email: todd.fridley@kcpl.com

With a copy to:

Director, Transmission and Interconnection Services  
American Electric Power Service Corporation  
212 East 6<sup>th</sup> Street  
Tulsa, OK 74119-1295  
Telephone: 918-599-2723  
Email: rlpennybaker@aep.com

Interconnection Customer:

Business Manager  
Osborn Wind Energy, LLC  
c/o NextEra Energy  
700 Universe Blvd.  
Juno Beach, FL 33408

**Operations and Maintenance Communications:** [Identify contacts for operations]

Transmission Provider:

Bruce Rew, Vice President, Operations  
Southwest Power Pool, Inc.  
201 Worthen Drive  
Little Rock, AR 72223-4936  
Phone: 501-614-3214

Transmission Operator:

Jay Patel, Manager System Operations (Transmission)  
Kansas City Power & Light  
P.O. Box 418679  
Kansas City, MO 64141  
Phone: 816-654-1242  
Email: [jay.patel@kcpl.com](mailto:jay.patel@kcpl.com)



Interconnection Customer:

Business Manager  
Osborn Wind Energy, LLC  
c/o NextEra Energy  
700 Universe Blvd.  
Juno Beach, FL 33408

## **APPENDIX G TO GIA**

### **REQUIREMENTS OF GENERATORS RELYING ON NEWER TECHNOLOGIES**

Appendix G sets forth requirements and provisions specific to a wind generating plant. All other requirements of this GIA continue to apply to wind generating plant interconnections.

#### **A. Technical Standards Applicable to a Wind Generating Plant**

##### **i. Low Voltage Ride-Through (LVRT) Capability**

A wind generating plant shall be able to remain online during voltage disturbances up to the time periods and associated voltage levels set forth in the standard below. The LVRT standard provides for a transition period standard and a post-transition period standard.

##### **Transition Period LVRT Standard**

The transition period standard applies to wind generating plants subject to FERC Order 661 that have either: (i) interconnection agreements signed and filed with the Commission, filed with the Commission in unexecuted form, or filed with the Commission as non-conforming agreements between January 1, 2006 and December 31, 2006, with a scheduled in-service date no later than December 31, 2007, or (ii) wind generating turbines subject to a wind turbine procurement contract executed prior to December 31, 2005, for delivery through 2007.

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to prefault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the transmission provider. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles at a voltage as low as 0.15 p.u., as measured at the high side of the wind generating plant step-up transformer (i.e. the transformer that steps the voltage up to the transmission interconnection voltage or “GSU”), after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system.

2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU or to faults that would result in a voltage lower than 0.15 per unit on the high side of the GSU serving the facility.
3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static var Compensator, etc.) within the wind generating plant or by a combination of generator performance and additional equipment.
5. Existing individual generator units that are, or have been, interconnected to the Transmission System at the same location at the effective date of the Appendix G LVRT Standard are exempt from meeting the Appendix G LVRT Standard for the remaining life of the existing generation equipment. Existing individual generator units that are replaced are required to meet the Appendix G LVRT Standard.

#### **Post-transition Period LVRT Standard**

All wind generating plants subject to FERC Order No. 661 and not covered by the transition period described above must meet the following requirements:

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to prefault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the transmission provider. The maximum clearing time the wind generating plant shall be required to withstand for a three phase fault shall be 9 cycles after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system. A wind generating plant shall remain interconnected during such a fault on the transmission system for a voltage level as low as zero volts, as measured at the high voltage side of the wind GSU.
2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU.

3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static var Compensator) within the wind generating plant or by a combination of generator performance and additional equipment.
5. Existing individual generator units that are, or have been, interconnected to the Transmission System at the same location at the effective date of the Appendix G LVRT Standard are exempt from meeting the Appendix G LVRT Standard for the remaining life of the existing generation equipment. Existing individual generator units that are replaced are required to meet the Appendix G LVRT Standard.

**ii. Power Factor Design Criteria (Reactive Power)**

A wind generating plant shall maintain a power factor within the range of 0.95 leading to 0.95 lagging, measured at the Point of Interconnection as defined in this GIA, if the Transmission Provider's System Impact Study shows that such a requirement is necessary to ensure safety or reliability. The power factor range standard can be met by using, for example, power electronics designed to supply this level of reactive capability (taking into account any limitations due to voltage level, real power output, etc.) or fixed and switched capacitors if agreed to by the Transmission Provider, or a combination of the two. The Interconnection Customer shall not disable power factor equipment while the wind plant is in operation. Wind plants shall also be able to provide sufficient dynamic voltage support in lieu of the power system stabilizer and automatic voltage regulation at the generator excitation system if the System Impact Study shows this to be required for system safety or reliability.

**iii. Supervisory Control and Data Acquisition (SCADA) Capability**

The wind plant shall provide SCADA capability to transmit data and receive instructions from the Transmission Provider to protect system reliability. The Transmission Provider and the wind plant Interconnection Customer shall determine what SCADA information is essential for the proposed wind plant, taking into account the size of the plant and its characteristics, location,

and importance in maintaining generation resource adequacy and transmission system reliability in its area.

# EXHIBIT 3

**EXHIBIT "A"**

THE FOLLOWING REAL PROPERTY LOCATED IN THE COUNTY OF HOLT, STATE OF MISSOURI:

The South 770.00 feet of the West 962.00 feet of the West Half of the Northeast Quarter of Section 31, Township 63 North, Range 38 West of the Fifth Principal Meridian, Holt County, Missouri.