



Control Number: 35077



Item Number: 314

Addendum StartPage: 0



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July 10, 2012

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Public Utility Commission of Texas  
1701 N. Congress Avenue  
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**Subject: Project No. 35077-Oncor Electric Delivery Company's Transmission Contract  
Filing Pursuant to Subst. Rule 25.195(e)**

Find attached an Amendment to the Interconnection Agreement between Oncor Electric Delivery Company LLC and Notrees Windpower, LP (GIR 07INR0005), dated June 27, 2012, for filing at the Public Utility Commission pursuant to Substantive Rule 25.195(e). Because the filed agreement contains slight deviations from the Commission-approved standard generation interconnection agreement (SGIA), Oncor Electric Delivery has prepared this letter explaining the changes and requests that it be filed with the aforementioned interconnection agreement.

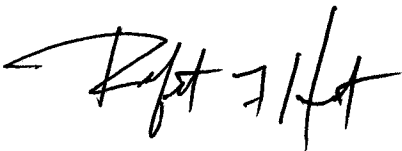
- The Amended Interconnection Agreement between Oncor Electric Delivery Company LLC and Notrees Windpower, LP, (GIR 07INR0005) has been modified to replace the term "senior secured debt" with "senior long term debt" and replace the term "Standard & Poor's" with "Standard & Poor's or Moody's Investor's Service", "Standard & Poor's and Moody's Investor's Service", and "Standard & Poor's and Moody's Investor's Service", respectively, in Exhibit "A", Article 9, INSURANCE, Subsection 9.1.J.
- The definition for "ISO" has been deleted and all references to "ISO" have been changed to "ERCOT". The following language in Exhibit "A", Article 6, Subsection 6.2, Control Area Notification has been deleted, "At least six months before Trial Operation, the Generator shall notify the TSP in writing of the Control Area in which it will be located. If the Generator elects to be located in a Control Area other than the Control Area in which the TSP is located, all necessary agreements, including but not limited to remote control area generator interchange agreements, if applicable, and appropriate measures under such agreements, shall be executed and implemented prior to the placement of the Plant in the other Control Area. The Parties will diligently cooperate with one

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another to enable such agreements to be executed and implemented on a schedule necessary to meet the Trial Operation date specified in Exhibit "B." ", and replaced with, "The Control Area within ERCOT is a single Control Area with ERCOT assuming authority as the Control Area operator in accordance with the ERCOT Protocols."

- The following language in Exhibit "A", Article 7, Subsection 7.2 Initial Data Submission by TSP, "The initial data submission by the TSP shall occur no later than 120 days prior to Trial Operation...", has been modified to read, "The initial data submission by the TSP shall occur prior to Trial Operation...", and
- The following language in Exhibit "A", Article 7, Subsection 7.3 Initial Data Submission by Generator, "The initial data submission by the Generator, including manufacturer data, shall occur no later than 90 days prior to the Trial Operation...", has been modified to read, "The initial data submission by the Generator, including manufacturer data, shall occur prior to the Trial Operation...".
- The following references to the PUCT Substantive Rules were changed, PUCT Rule 25.198(g) to 25.198(d); 25.5(23) to 25.5(56); 25.196(e) to 25.191(d)(3).
- The term Co-Tenant Generators was introduced to reflect the fact that there are two generators served off this single Point of Interconnection.
- The form of termination and disconnection in Article 2 and the default provision in Article 10.6 were also modified to reflect the presence of two parties being involved rather than a single generator.

Sincerely,

A handwritten signature in black ink, appearing to read "RH/tlw", with a stylized flourish at the end.

RH/tlw  
Enclosure

**AMENDMENT NO. 2**  
**ERCOT STANDARD GENERATION INTERCONNECTION AGREEMENT**  
**GIR 07INR0005**

*Electric JRA*

This Amendment No. 2 ("Amendment") to the ERCOT Standard Generation Interconnection Agreement, dated October 16, 2007, between Oncor Delivery Company LLC ("Oncor"), a Delaware limited liability company, and Notrees Windpower, LP ("Notrees" or "Customer") ("Agreement") is made and entered into this 27th day of June, 2012 between Oncor and Notrees, individually referred to hereinafter as a Party and collectively as Parties. In consideration of the mutual promises and undertakings herein set forth, the Parties hereby agree to amend the Agreement as follows:

1. The Exhibit "C" to the Agreement is deleted in its entirety and replaced with the Exhibit "C" attached hereto and made a part hereof.
2. Except as otherwise expressly provided for herein, the Agreement will continue in full force and effect in accordance with its terms.

IN WITNESS WHEREOF, the Parties have caused this Amendment to be executed in several counterparts, each of which shall be deemed an original but all shall constitute one and the same instrument.

ONCOR ELECTRIC DELIVERY  
COMPANY LLC

NOTREES WINDPOWER, LP

By: *[Signature]*

Name: Jeffrey B. Herring

Print or type

Title: Director - Transmission Services

Date: 6/27/12

By: *[Signature]*

Name: JASON M. ALLEN

Print or type

Title: VICE PRESIDENT

Date: JUNE 21, 2012

## **Exhibit "C"**

### **Interconnection Details**

1. Name: Notrees Windpower
2. Point of Interconnection location: The Point of Interconnection is located in Winkler County, Texas, in TSP's No Trees 138 kV Switching Station located on State Highway 115. Specifically, the Point of Interconnection shall be defined as the point where TSP's transmission line conductors connect with the Generator's jumpers on the Generator's dead-end structure located on TSP's property outside the fence surrounding TSP's No Trees 138 kV Switching Station. (See attached one-line diagram.)
3. Delivery Voltage: 138 kV
4. Number and size of Generating Units:  
55 – Vestas 1.65 MW wind turbines with a capacity of 90.75 MW.  
40 – GE 1.5 MW wind turbines with a capacity of 60 MW.  
1 – Vestas 1.8 MW  
24-1.5 MW/ 1.0 MWh Dynamic Power Resource battery storage unit operated as a single 36 MW/24 MWh device manufactured by Xtreme Power  
  
Total capacity will be 188.55 MW
5. Type of Generating Unit:  
The 96 wind generation units will consist of 55 – Vestas 1.65 MW V-82 units 40 – GE 1.5 MW units and 1 – Vestas V90 1.8MW unit.  
36 MW Dynamic Power Resource battery storage unit
6. Metering and Telemetry Equipment: Metering (voltage, location, losses adjustment due to metering location, and other), telemetry, and communications requirements shall be as follows:
  - a. TSP shall, in accordance with ERCOT Requirements and Good Utility Practice, install, own, operate, inspect, test, calibrate, and maintain 138 kV metering accuracy potential and current transformers and associated metering and telemetry equipment (including an RTU) located in the TIF. A one-line diagram showing TSP's ERCOT-pollled settlement ("EPS") metering location is attached to this Exhibit "C" as Attachment 1. TSP will connect its EPS meters to its RTU via a communication link. EPS metering data may be made available to Generator via a Generator-owned communication link connected to TSP's RTU, using TSP's available RTU protocol. Such data, if provided to Generator, will be for Generator's informational purposes only. Generator shall not rely on such data, as the primary source, for the metering data addressed in item 6b. below, or for any other scheduling or operational

purposes. TSP makes no guarantee of the quality or availability of such data. The provisions of Exhibit "A", Section 5.5G., shall not apply to TSP's RTU.

- b. Generator shall, in accordance with Good Utility Practice, install, own, operate, inspect, test, calibrate, and maintain the necessary metering potential and current transformers and associated metering and telemetry equipment in the GIF and/or Plant to satisfy the ERCOT Requirements for the provision of metering data by Generator's "Qualified Scheduling Entity".
- c. Generator shall, in accordance with ERCOT Requirements and Good Utility Practice, install, own, operate, inspect, test, calibrate, and maintain the metering and telemetry equipment (including an RTU or other equipment acceptable to TSP) to supply all electrical parameters of the Plant and GIF, as specified in the SCADA Table in Attachment 2 to this Exhibit "C", to TSP at a location designated by TSP.
- d. Generator shall, in accordance with ERCOT Requirements and Good Utility Practice, provide communications facilities that are, or may in the future be, necessary for effective interconnected operation of the Generator's Plant with the transmission system. Generator will directly make arrangements to procure and will bear the procurement, installation and ongoing costs of such facilities. The communications facilities will include:
  - (i) one private line voice circuit in the Plant control room (an off-premise extension for TSP's PBX) as shown on Exhibit D and as discussed in item 12 of this Exhibit C; and
  - (ii) One four-wire Bell Standard Type 420, or equivalent data circuit installed from a DNP 3.0 or VanCom/Alert protocol communication port in Generator's RTU (or other equipment acceptable to TSP) to a location designated by TSP.
  - (iii) one dedicated telephone demarcation, acceptable to TSP, for TSP's use at the No Trees Switching Station. The exact location of such telephone demarcation shall be designated by TSP and shall include, but not be limited to, two (2) private line voice circuits and one (1) four-wire Bell Standard Type 420, or equivalent, data circuit.
- e. Notwithstanding any provisions to the contrary in item (d) of this Section 6, TSP shall make arrangements for and bear the ongoing cost of telephone service provided to TSP from the demarcation point specified in item (d)(iii) of this Section 6.
- f. Prior to the In-Service Date, acceptance tests will be performed by TSP and Generator to ensure the proper functioning of all metering, telemetry, and communications equipment, and to verify the accuracy of data being received by TSP.

- g. Following the Commercial Operation date, each Party shall test its metering, telemetry, and communications equipment in accordance with ERCOT Requirements and Good Utility Practice. Each Party shall give the other Party reasonable advance notice of such testing. Each Party shall have the right to observe testing performed by the other Party.
  - h. Any changes to Generator's metering, telemetry, and communication equipment, including meters, voltage transformers, current transformers, and associated RTU, panels, hardware, conduit and cable, that will affect the data being received by TSP hereunder must be mutually agreed to by the Parties.
  - i. Each Party will promptly advise the other Party if it detects or otherwise learns of any metering, telemetry, or communications equipment or related situation that requires attention and/or correction by the other Party.
7. Generator Interconnection Facilities: The GIF shall include the following facilities. (See the attached one-line diagram)

Generator Transmission Facilities

Generator will be responsible for the construction and ownership of an estimated 6.5 miles of single-circuit, 795 kcmil ACSR conductors on single-circuit structures from Generator's Plant 138 kV Switchyard to the Generator's dead-end structure adjacent to the No Trees 138 kV Switching Station and located on TSP property.

Generator Switchyard Facilities

- (Lot) Circuit breaker, 138 kV, with two sets of 3000/5, C800 CT's with a TRF = 2.0 for line current differential relaying
- (Lot) Switches, air break, 138 kV, gang operated, 3 phase, with provisions for TSP pad lock
- (Lot) CCVT or PT, 138 kV, dual secondary windings as required for Generator's metering and relaying
- (Lot) Protective relaying equipment necessary to interface with TSP's relaying equipment for protection of the 138 kV line and related breaker failure protection systems
- (1 ea.) Supervisory equipment, SCADA RTU
- (1 ea.) Fault Recording Equipment (as required by ERCOT)
- (Lot) Metering, Telemetry, and Communications Equipment
- (Lot) Associated structures, buswork, conductor, connectors, grounding, conduit, control cable, foundation work, perimeter fencing, grading/dirt work and any appurtenances necessary for construction and operation of the GIF
- (Lot) All-weather road acceptable to TSP for TSP's ingress and egress to and from the TIF site
- (4ea.) 20 MVAR 138 kV Capacitors

The above list is not intended to be a complete list of all facilities that are part of the GIF.

8. Transmission Service Provider Interconnection Facilities: The TIF shall include the following facilities. (See the attached one-line diagram)

TSP Wink – North Andrews 138 kV Line: The existing Wink – North Andrews 138 kV circuit will be looped into the No Trees 138 kV Switching Station which will require the installation of two (2) 138 kV dead end angle structures in the line right-of-way to separate the existing line and route it as two circuits into the No Trees 138 kV Switching Station.

TSP No Trees 138 kV Switching Station: The TSP No Trees 138 kV Switching Station will be enclosed in a fenced area of approximately 195 ft. x 230 ft. which shall consist of two 138 kV sources and provide Generator with one interconnection point from a 138 kV three breaker ring bus arrangement. Generator shall connect at a delivery voltage of 138 kV with the Point of Interconnection being designated as the location at which TSP's transmission line conductors connect with the Generator's jumpers on Generator's dead-end tower located on TSP's property adjacent to TSP's No Trees 138 kV Switching Station. Additional area will be required around the entire fence perimeter for grounding and grading work. Easements will also be required for routing the Wink – North Andrews Line into the No Trees 138 kV Switching Station.

a. Switchyard Equipment

The following list of major switchyard equipment will be necessary for the operation of the No Trees 138 kV Switching Station.

- (3 ea.) Circuit breaker, 138 kV, 3000 amperes, 40 kA
- (9 ea.) Switch, air break, 138 kV, 2000 amperes, gang operated, 3 phase
- (3 ea.) Metering Current Transformers, 138 kV
- (3 ea.) PTs, 138 kV, dual secondary windings for metering and relaying
- (6 ea.) CCVT, 138 kV, dual secondary windings for relaying, and with carrier coupling
- (2 ea.) Line trap, 138 kV, 2000 amperes
- (2 ea.) Line tuner
- (3 ea.) Surge arresters, 138 kV
- (1 ea.) Supervisory equipment, SCADA RTU
- (1 ea.) Digital Fault Recorder
- (1 ea.) Control house w/2-125 VDC battery sets and associated indoor accessories
- (1 lot) All galvanized steel structures, including dead-ends, switch stands, metering structures, surge arrester supports, CT supports, PT supports, CCVT / line trap supports, static masts, and bus supports necessary for construction and operation of the TSP Switchyard Facilities



(1 lot) Associated buswork, conductor, connectors, grounding, conduit, control cable, foundation work, perimeter fencing, grading/dirt work and any appurtenances necessary for construction and operation of the TIF.

b. Relaying Equipment

The following relay panels will be necessary for the operation of the No Trees 138 kV Switching Station.

- (1 ea.) Wink line relay panel
- (1 ea.) North Andrews line relay panel
- (2 ea.) Transfer trip relay panels
- (1 ea.) Generator line current differential relay panel
- (1 ea.) Metering panel with totalizing equipment
- (1 ea.) Carrier tester and communications panel

Wink 138 kV Switching Station Changes and Additions

The improvements needed at the Wink 138 kV Switching Station require adding 138 kV terminal transfer trip carrier equipment. This change will include replacing or re-tuning the existing line tuner and line trap and installing a transfer trip receiver.

- (1 ea.) Line tuner, type S, 90-300 kHz
- (1 ea.) Line trap tuning pack
- (1 ea.) Transfer Trip Receiver Panel

North Andrews 138 kV Switching Station Changes and Additions:

The improvements needed at the North Andrews 138 kV Switching Station require upgrading the 138 kV line terminal equipment and adding transfer trip carrier equipment. This change will include replacing the existing line disconnect switches, line trap, and tuner.

- (1 ea.) Line trap, 138 kV, 2000 amperes
- (1 ea.) Line tuner, type S, 90-300 kHz
- (2 ea.) Switch, air break 138 kV, 2000 amperes, gang operated, 3 phase
- (1 ea.) Transfer Trip Receiver Panel

Dollarhide 138 kV Switching Station Changes and Additions:

The improvements needed at the Dollarhide 138 kV Switching Station require upgrading two (2) loop splitting line disconnect switches from 600A to 2000A. These switches are located on transmission structures on either side of the Dollarhide Switching Station. The structures must also be replaced to accommodate the new switches.

The above lists are not intended to be complete lists of all facilities that are part of the TIF.

9. Communications Facilities: See Item 6 above.
10. System Protection Equipment: See Section 5.6 of Exhibit "A" and Attachment 3 to this Exhibit "C".
11. Inputs to Telemetry Equipment: See Attachment 2 to this Exhibit "C".
12. Supplemental Terms and Conditions:
  - a. For additional supplemental terms and conditions, see Attachments 1, 2, and 3 to this Exhibit "C".
  - b. Exhibit D - Prior to TSP completing the TIF and placing such facilities into service, Generator will revise Exhibit D and provide same to TSP to reflect the fax number and TSP off-premise exchange telephone number which TSP's dispatch center will be able to use for communications with Generator's dispatch center. Generator's dispatch center shall be staffed 24 hours per day, 7 days per week, by personnel capable of making operating decisions and possessing the ability to control the Plant and GIF.
  - c. If Generator Owns Land - If Generator will own the land in fee upon which TSP will construct the TIF, or portion thereof, Generator will provide to TSP, at no cost to TSP, a deed or easement(s) in perpetuity, in form and substance satisfactory to TSP, for such land or land rights as are needed for the TIF. Generator will provide such deed or easement(s) to TSP by the date specified in Exhibit "B".

If Generator Does Not Own Land - If Generator will not own the land in fee upon which TSP will construct the TIF but has obtained certain land rights from the fee owner of such land, Generator will (i) enter into good faith negotiations with the fee owner of such land to assist TSP in obtaining, at no cost to TSP, either a deed or easement(s), in form and substance satisfactory to TSP, for such land or land rights needed for the TIF, by the date specified in Exhibit "B" and (ii) cooperate with TSP and the fee owner of such land in the development of legal documentation, satisfactory to TSP, which specifies that the land rights to be granted to TSP by the fee owner of such land will control in the event of conflict between such land rights and the aforementioned land rights held by Generator.
  - d. Line Crossings - Generator's new transmission line referenced in Section 7 above may come near, or cross, and require modifications to TSP's transmission line(s) and/or distribution line(s). If such transmission line will encroach within any portion of TSP's right of way associated with TSP's transmission line(s) and/or distribution line(s), Generator must submit its

request to TSP using a form of request acceptable to TSP and obtain written authorization from TSP for such encroachment prior to Generator installing such transmission line. TSP will evaluate such request and determine what modifications may be needed to TSP's facilities. The Point of Interconnection will not be energized until Generator obtains written authorization from TSP for such encroachment. The Generator will be responsible for the cost of all modifications needed on facilities owned by TSP which are the result of such encroachment.

- e. Plant Name and Device Numbers – Generator and TSP will collaborate on the establishment of: i) a unique name for the Generator's Plant and Generator's switching station (if applicable), and ii) device numbers for all transmission voltage level switches and breakers which will be owned by Generator, in accordance with ERCOT Requirements, with the goal of reaching consensus on such information no later than one hundred twenty (120) days prior to the In-Service Date. Generator will register such Plant name, Generator-owned switching station name, and Generator-owned device numbers at ERCOT, in accordance with ERCOT Requirements, and such names and device numbers will be consistent with the names and numbers established pursuant to this paragraph. Generator will not change the Plant name, Generator-owned switching station name, or device numbers, established pursuant to this paragraph, without written approval of TSP.
- f. Power Supply to Switching Station - Generator will, at Generator's expense, be responsible for (i) making arrangements, acceptable to TSP, with a certificated utility for the installation of a 120/240 volt AC distribution voltage point of interconnection for TSP's use at TSP's No Trees Switching Station and (ii) providing such point of interconnection at a location designated by TSP prior to the date by which Generator must provide notice to TSP to commence construction of the TIF under Exhibit "B". TSP will make arrangements for and bear the cost of power and energy taken from such point of interconnection.
- g. Incomplete Studies - Generator has requested to sign this Agreement prior to the completion of the Stability and Short Circuit ("Studies") associated with the 36 MW battery storage facility in this Agreement. The completion of such Studies may reveal that additional TSP facilities will be required to be installed in conjunction with the interconnection of the 36 MW battery storage facility. If TSP determines, as a result of such Studies, that this Agreement needs to be amended to include additional facilities, the Parties will amend this Agreement to include (i) such additional facilities identified in the Studies, and (ii) additional security requirements as may be reasonably determined by TSP. Generator will provide an additional level of security in accordance with this Agreement to reflect any such additional facilities.
- h. Additional Studies – If the TSP performs any additional generation

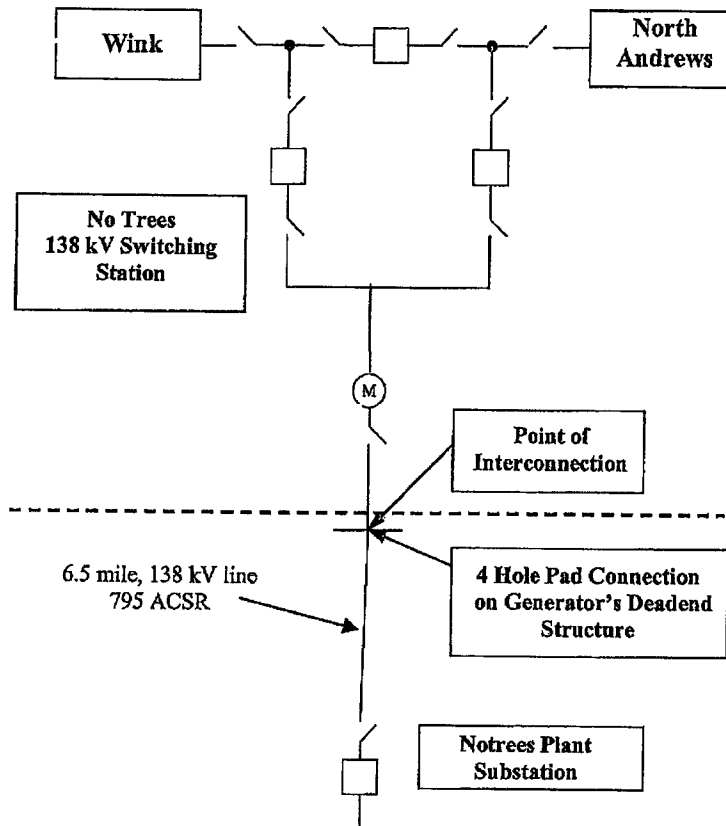
interconnection studies associated with the Plant in accordance with ERCOT Requirements, Generator shall pay such amounts for such studies as are reasonably incurred by TSP.

13. Special Operating Conditions:

A special ERCOT-approved operating arrangement such as a Remedial Action Plan or Special Protection System might be implemented to allow the Plant to generate power at levels higher than would otherwise be permitted by ERCOT. The terms "Remedial Action Plan" and "Special Protection System" shall have the meanings as set forth in the ERCOT Requirements. TSP and ERCOT will examine the need and feasibility of these arrangements in cooperation with the Generator. In the event that ERCOT determines that such an arrangement is permitted, then TSP, ERCOT, and Generator will cooperate to design and install the necessary facilities, to be operational for the duration of the period where such Remedial Action Plan or Special Protection System may be permitted.

14. The difference between the estimated cost of the TIF under 4.1.A (\$ N/A ) and the estimated cost of the TIF under 4.1.B (\$ N/A ) is: N/A , if applicable.

**Attachment 1 to Exhibit "C"**  
**ONE LINE DIAGRAM**  
**NO TREES 138 KV SWITCHING STATION**



Note: This one-line diagram is for illustration only and shall not be used for purposes of design, construction or operations

Attachment 2 to Exhibit "C"

SCADA TABLE  
INFORMATION REQUIRED BY TSP FROM GENERATOR

GIF DEVICE/BUS

DATA REQUIRED

Each 138 kV Breaker

Status indication, three  
phase  
megawatts, and three phase  
megavars (Dry type breaker  
"A" contacts required for  
indication and 0 - 1 milliamp  
analog signal required for  
megawatt and megavar  
information)

Each 138 kV Bus

A, B and C Phase voltages (0 –  
1 milliamp analog signal  
required for voltage  
information)

Note: The SCADA Table above does not include real-time operational metering data or other data required by ERCOT from the Generator or its Qualified Scheduling Entity.

### **Attachment 3 to Exhibit "C"**

#### **SYSTEM PROTECTION REQUIREMENTS**

In addition to the provisions of Sections 5.6 and 6.1 of this Agreement, the following provisions shall apply with respect to system protection issues. To the extent there is a conflict between Sections 5.6 or 6.1 of this Agreement and this Attachment 3 to Exhibit "C", the provisions of this Attachment 3 to Exhibit "C" shall apply.

Generator and TSP shall design, install, operate, maintain, and test system protection equipment consistent with the applicable criteria as described in the ERCOT Requirements and any applicable requirements of Governmental Authorities, including NERC Reliability Standards. To the extent necessary to comply with the testing provisions of these requirements, including the time intervals of such requirements, the circuit breakers in the TIF will be tripped during the required testing, and thus may require an outage or reduction of generation at the Plant. Generator shall, at its expense, provide modifications or additions to its control and protective equipment required to comply with changes in ERCOT Requirements or requirements of Governmental Authorities, including complying with NERC Reliability Standards.

Generator, using Good Utility Practice, shall install sufficient digital fault recording equipment to thoroughly analyze all system disturbances occurring on the GIF and the Plant and to thoroughly analyze the Plant and GIF performance during system disturbances on the ERCOT system. This equipment shall monitor the voltages at major nodes, current at major branches, breaker and switch positions, and dc logic in the relay control scheme.

Generator will provide to the TSP its proposed system protection design, device settings, and other information, as referenced below ("Generator System Protection Components") for review by TSP, by the date specified on Exhibit "B". Generator shall not modify its Generator System Protection Components, at any time during the term of this Agreement, without first submitting such planned modifications to TSP for review. Such review by TSP will be for the limited purpose of determining if Generator's System Protection Equipment is compatible with TSP's System Protection Equipment. The Generator System Protection Components submitted by Generator shall include, but shall not necessarily be limited to:

1) Design components: scheme types, one line diagram, relay functional, type of protective relays and associated communication equipment, and trip circuit diagrams for the interconnection breakers.

2) Device settings and other information: device settings, CT and VT/CCVT information, transformer connection configuration, transformer tap position(s) and associated positive and zero sequence impedances, transmission line positive and zero sequence impedances, and generator impedances, including the saturated sub-transient impedance, when appropriate.

TSP shall specify system protection and control schemes for the Point of Interconnection. Generator shall have the right to review and comment on such schemes and TSP shall consider Generator's comments when determining such schemes. Generator will install and maintain System Protection Equipment that is compatible with TSP's System Protection Equipment. TSP will work with the Generator to coordinate the establishment of the relay settings for System Protection Equipment owned by both Generator and TSP associated with the Point of Interconnection.

If the GIF facilitates the interconnection of generators to the Southwest Power Pool (or any other reliability council other than ERCOT), Generator will utilize open circuit breakers and air-break switches (which provide visible open indication) as a means of isolating such generators from ERCOT prior to switching them to such other reliability council.

Generator will design, construct, and operate its electrical facilities such that all unit auxiliary power sources will come from the same reliability council to which the unit output is connected.