

Control Number: 35077



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November 1, 2019

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

Re: Project No./Docket No. 35077—Wind Energy Transmission Texas, LLC’s Generation Interconnection Agreement Filing Pursuant to PUCT Substantive Rule 25.195(e)

Attached, please find the First Amendment to Generation Interconnection Agreement (the “Amendment”) between Wind Energy Transmission Texas, LLC (“WETT”) and ENGIE Long Draw Solar, LLC (“Long Draw Solar”) dated to be effective as of October 15, 2019, for filing at the Public Utility Commission of Texas (“PUCT”) pursuant to Substantive Rule 25.195(e).

WETT and Long Draw Solar entered into that certain Generation Interconnection Agreement dated as of August 16, 2018 (the “Agreement”) and filed the Agreement with the PUCT on September 4, 2018.

The attached Amendment does not create any deviations from the Standard Generation Interconnection Agreement. The Amendment only alters certain details included in Exhibit “C” Interconnection Details and Exhibit “D” Notice and EFT Information of the Generation Interconnection to the Agreement.

Sincerely,

WIND ENERGY TRANSMISSION TEXAS, LLC

By: _____
Name: Patrick Burnett
Title: Contracts Manager

Phone: 512.279.7369

WIND ENERGY TRANSMISSION TEXAS, LLC
1901 Capital Parkway, Suite 200
Austin, Texas 78746
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**FIRST AMENDMENT TO
GENERATION INTERCONNECTION AGREEMENT**

This First Amendment To Generation Interconnection Agreement (this "Amendment") between Wind Energy Transmission Texas, LLC (the "Transmission Service Provider" or "TSP") and ENGIE Long Draw Solar, LLC (the "Generator") is made to be effective as of October 15, 2019 (the "Effective Date") by and between TSP and Generator (each hereinafter individually referred to as "Party," and collectively referred to as "Parties").

RECITALS:

WHEREAS, TSP and Generator entered into that certain Generation Interconnection Agreement dated as of August 16, 2018 (the "Original GIA"); and

WHEREAS, TSP and Generator desire to amend the Original GIA as more fully described herein;

NOW, THEREFORE, in consideration of the foregoing and the mutual promises of the Parties, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned agree as follows:

AGREEMENT:

1. All capitalized terms used herein and not otherwise defined have the same meaning as those used in the Original GIA.
2. Exhibit "C" Interconnection Details of the Original GIA is hereby replaced in its entirety with the Exhibit "C" Interconnection Details attached to this Amendment including Generator's substation single line diagram attached as Exhibit C-1.
3. Exhibit "D" Notice and EFT Information of the Generation Interconnection Agreement of the Original GIA is hereby replaced in its entirety with the Exhibit "D" Notice and EFT Information of the Generation Interconnection Agreement attached to this Amendment.
4. Except as amended by this Amendment, the terms and conditions of the Original GIA are unaffected and remain in full force and effect.
5. This Amendment shall be binding upon and shall inure to the benefit of the Parties and their respective successors and assigns.
6. This Amendment is governed by and shall be construed in accordance with the internal laws of the state of Texas, including the then effective rules and regulations promulgated by the Public Utility Commission of Texas but excluding any conflict of law rule or principle that might refer the governance or construction of this Amendment to the law of another jurisdiction.

7. If any provision of this Amendment is held to be unenforceable, this Amendment shall be considered divisible, and such provision shall be deemed inoperative to the extent it is deemed unenforceable, and in all other respects this Amendment shall remain in full force and effect; provided, however, that, if any provision may be made enforceable by limitation thereof, then such provision shall be deemed to be so limited and shall be enforceable to the maximum extent permitted by applicable law.

8. This Amendment shall become effective when it shall have been executed by the Parties. Delivery of an executed counterpart of a signature page to this Amendment by facsimile or other electronic delivery shall be effective as delivery of a manually executed counterpart of this Amendment.


[SIGNATURE PAGE FOLLOWS.]

**SIGNATURE PAGE TO
FIRST AMENDMENT TO GENERATION INTERCONNECTION AGREEMENT**

IN WITNESS WHEREOF, the Parties have executed this Amendment to be effective as of the Effective Date.

TRANSMISSION SERVICE PROVIDER:

WIND ENERGY TRANSMISSION TEXAS, LLC

By: 
Name: L. Wayne Morton
Title: CEO
Date: 10/18/19

GENERATOR:

ENGIE LONG DRAW SOLAR, LLC


By: 
Name: Marc-Alain Behar
Title: Vice-President
Date: 10/18/19

Exhibit "C"
Interconnection Details

1. **Name:** Long Draw 138kV station
2. **Point of Interconnection Location:** The POI shall be located at a termination structure adjacent to Generator's substation. TSP will own the conductor and deadend assemblies up the deadend vang attachment points. Generator will own and supply the conductor jumpers extending from the TSP deadend bodies to the Generator's substation equipment. TSP will own and install the OPGW up to and including the splice box located on TSP's substation termination structure.
3. **Delivery Voltage:** 138kV
4. **Number and Size of Generating Units:** Seventy-Six (76) - Power Electronic (HEM FS3270M) 3,270 kVA Inverter at 50°C
5. **Type of Generating Unit:** Solar
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 located in the TIF. These facilities will be located at the TSP station and the facilities will be adjusted for line losses based on the location of the POI and ERCOT protocols. TSP will connect its EPS meters to ERCOT via a communication link. Primary EPS metering data may be made available to Generator via a Generator owned communication link connected to TSP's meters. Such data, if provided to the Generator, will be for Generator's informational purposes only. The Generator shall not rely on such data as the primary source for the metering data addressed in Sections 6 (b) and (c) 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 5.5.G, 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) 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.

- d) 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.
- e) 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.

7. Generator Interconnection Facilities: The GIF shall include all of the facilities not included in Section 8 of this Exhibit "C" that are necessary for interconnection in accordance with this Agreement, including, without limitation, the following facilities (see the attached one-line diagram in Attachment 1 to Exhibit "C"):

- a) GIF include the following:
 - i) the Substations and all facilities within them, except for those facilities identified as being owned by TSP in Section 6 above and Section 8 below
 - ii) communication equipment described in Section 9 below
 - iii) other facilities as needed based on the Study Results

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:

WETT's Long Draw Station has twelve (12) 345 kV transmission line terminals and two (2) autotransformer terminals. The current configuration is a breaker and a half arrangement with terminations from Sand Bluff, Grelton, Mesquite Creek, Former SPS line, Wind Developer #2, Faraday, and Scurry South. The project will add an Autotransformer connection (Auto-102-2) to the existing Bay 2 in the 345 kV Long Draw substation.

The new 138 kV Section one will have one (1) 600MVA transformer terminal, and one (1) 138 kV transmission terminal. It will be constructed in accordance with WETT standards as a breaker and a half arrangement.

The modification required to the existing configuration for accommodating the interconnection from Generator includes the following:

345 kV Long Draw Substation Section Scope

SUBSTATION PHYSICAL

The Physical scope of this project will be to furnish and install (including all Engineering and Design required):

- (1) - 345 kV, 3000 A, 63kA Gas Circuit Breakers

- (2) - 345 kV, 3000 A Motor Operated Double End Break Switches
- (1) - 345 kV, 3000 A Motor Operated Double End Break Switches with grounding switch
- (3) - 345 kV, 1800/3000:1 0.3 WXYZM ZZ CCVT'S
- (3) - 345 kV 220 MCOV Surge Arresters
- (1 LOT) – Bus and Conductor as Required
- (1 LOT) – Station Grounding as Required
- (1 LOT) – Conduit and Trench as Required
- (1 LOT) – Station Lightning Protection as Required
- (1 LOT) – Station Lighting as Required

CIVIL & STRUCTURAL

The Civil and Structural scope of this project will be to furnish and install (including all Engineering and Design required):

- (1) - 345 kV Dead End H-Frames with Pier Foundations
- (1) - 345 kV Gas Circuit Breaker Mat Foundation
- (1) - 345 kV Motor Operated Double End Break Switch Stands & Pier Foundations
- (3) - 345 kV 1-Phase CCVT Stands and Pier Foundations
- (3) - 345 kV 1-Phase Surge Arrester Stands and Pier Foundations
- (1 LOT) – Site Grading Design as Required
- (1 LOT) – Station Fence Installation
- (1 LOT) – Switch Ground Mats
- (1 LOT) – Miscellaneous Steel for switch-mounted bus supports

RELAY & CONTROL

The Relay & Control scope of this project will be to provide and install (including all Engineering and Design required):

- HV Autotransformer protection will include separate primary and backup protective schemes to be installed on available Panel 4B.
- Primary and backup Autotransformer protection will be a transformer differential relays (SEL-587 or similar) using fiber optic communications to the remote terminal.
- Breaker failure will be provided for all breakers and be initiated by all protective relay Schemes via a SEL-351S relay to be installed on existing Panel 3A.
- All adjacent protective schemes will overlap so that no gaps occur in the protection of the electrical components of the station.
- Test switches will be used for all currents and potentials of all protective relay schemes and motor operator controls.
- Test switches will also be used for all protective relay trip circuits.
- Independent 125 VDC power supply will be provided for the 345 kV relay and control functions (Relay Power, Close/Trip Schemes, etc.).
- SCADA functions will include control, breaker and alarm status, and metering. Some of these functions may be incorporated into the microprocessor-based relays.

- Update the existing transmission Follower Breaker Control Panel for Bay 2 GCB-102-40, GCB-102-50, and GCB-102-60. The update includes the following:
 - (1) SEL-351S
 - (LOT) Lockout relays, Control Switches, Test Switches, Terminal Blocks, Fuse Blocks
 - (LOT) Steel, Raceway, Wire, Fuses, and Miscellaneous
 - (LOT) AC/DC, Control, & Communication cables and conduit from field control cabinets to new panels
- (1) - Autotransformer Panel for AUTO-102-2 includes the following:
 - (2) SEL-587 (Primary and Back-Up)
 - (1) SEL-2506
 - (LOT) Lockout relays, Control Switches, Test Switches, Terminal Blocks, Fuse Blocks
 - (LOT) Steel, Raceway, Wire, Fuses, and Miscellaneous
- Revisions to Existing Leader Panel (GCB-102-90) SEL-351S (50BF-90) to include inputs from 86BF-60 and 86BF/90 outputs to 50BF-60.
- Revisions to Existing Leader Panel (GCB-102-120) SEL-351S (50BF-120) to include inputs from 86BF-60 and 86BF/120 outputs to 50BF-60.
- Revisions to Existing Leader Panel (GCB-102-150) SEL-351S (50BF-150) to include inputs from 86BF-60 and 86BF/150 outputs to 50BF-60.
- Revisions to Existing Leader Panel (GCB-102-170) SEL-351S (50BF-170) to include inputs from 86BF-60 and 86BF/170 outputs to 50BF-60.
- Revisions to Existing AC & DC panel boards to accommodate all new equipment
- Revisions to Existing SCADA system to accommodate all new equipment
- Revisions to Existing Communication equipment to accommodate all new equipment

138 kV Long Draw Substation Section Scope

PHYSICAL

The Physical scope of this project will be to furnish and install (including all Engineering and Design required):

- (1) – 345/138 kV 600 MVA Auto Transformer
- (2) - 138 kV, Gas Circuit Breaker
- (1) – 138 kV, Motor Operated Double End Break Switch with grounding switch
- (6) – 138 kV Motor Operated Double End Break Switches
- (1) – 138 kV CCVT's
- (3) – 138 kV Surge Arresters
- (1 LOT) – Bus and Conductor as Required
- (1 LOT) – Station Grounding as Required
- (1 LOT) – Conduit and Trench as Required
- (1 LOT) – Station Lightning Protection as Required
- (1 LOT) – Station Lighting as Required

CIVIL & STRUCTURAL

The Civil and Structural scope of this project will be to furnish and install (including all Engineering and Design required):

- (1) - 138 kV Dead End H-Frames with Pier Foundations
- (1) – 345/138 kV 600 MVA Auto Transformer Mat Foundation
- (1)– 138 kV, 3000 A, 63kA Gas Circuit Breaker Mat Foundation
- (1) – 138 kV, 3000 A Motor Operated Air Switch Stands & Pier Foundations
- (1) – 138 kV CCVT Stands and Pier Foundations
- (3) – 138 kV Surge Arresters Support Stands and Pier Foundations
- (2) – 138 kV 3-phase Bus Support Stands and Pier Foundations
- (1 LOT) – Site Grading Design as Required
- (1 LOT) – Station Fence Installation
- (1 LOT) – Retaining Wall
- (1 LOT) – Switch Ground Mats
- (1 LOT) – Miscellaneous Steel for switch-mounted bus supports

RELAY & CONTROL

The Relay & Control scope of this project will be to provide and install (including all Engineering and Design required):

- HV transmission line protection will include separate primary and backup protective schemes for the protection and control of the devices mentioned on the physical scope.
- Primary line protection will be a line current differential relay (SEL-411L) using fiber optic communications to the remote terminal. This relay will include backup line protection utilizing impedance (phase distance) elements. This relay will be used as the automatic reclose relay with initiate from the bac-up relay.
- Backup line protection will be a distance directional overcurrent relay (GE-L90) using fiber optic communications to the remote terminal. This relay will include backup line protection utilizing impedance (phase distance) elements.
- Breaker failure will be provided for all breakers and be initiated by all protective relay Schemes via three (3) SEL-351S relays.
- Test switches will be used for all currents and potentials of all protective relay schemes and motor operator controls.
- Test switches will also be used for all protective relay trip circuits.
- Independent 125 VDC power supply will be provided for the 138 kV relay and control functions (Relay Power, Close/Trip Schemes, HMI, Meters, communication devices, etc.).
- SCADA functions will include control, breaker and alarm status, and metering. Some of these functions may be incorporated into the microprocessor-based relays.
- The transmission Follower Breaker Control Panel for the new Bay will include:
 - (3) SEL-351S

- (LOT) Lockout relays, Control Switches, Test Switches, Terminal Blocks, Fuse Blocks
- (LOT) Steel, Raceway, Wire, Fuses, and Miscellaneous
- (LOT) AC/DC, Control, & Communication cables and conduit from field control cabinets to new panels
- (1) - Transmission Leader Line Panel for Transmission Line 1 which wraps around GCB-102-X1, GCB-102-X2 and GCB-102-X3 includes the following:
 - (1) SEL-411L (Primary)
 - (1) GE-L90 (Back-up)
 - (1) SEL-2506
- (LOT) Lockout relays, Control Switches, Test Switches, Terminal Blocks, Fuse Blocks
- (LOT) Steel, Raceway, Wire, Fuses, and Miscellaneous
- (LOT) AC/DC, Control, & Communication cables and conduit from field control cabinets to new panels.
- (1) – New Metering Panel to include new Revenue Meter (Transdata Mark V)
- (1) - New Distribution Transformer and its associated equipment (Transfer switch)
- (1) – New Emergency Generator
- (2) – Batteries to be sized on the detailed design. (Including transfer switches and protective devices)
- (1) – New AC & DC panel boards to accommodate all new equipment
- (1) – New SCADA system to accommodate all new equipment
- (1) – New Communication Panel to accommodate all new equipment
- (1) – New Control Enclosure / Building to accommodate all the devices described above; Including:
 - Control, LVAC and LVDC Cables
 - Cable trays
 - HVAC Units
 - Relay Panels
 - Battery, battery chargers, and protection devices
 - LVAC and LVDC distribution panels

All of the above may be modified to accommodate current, ongoing, and/or future construction considerations at WFTT's sole discretion.

9. Communications Facilities:

If GIF includes fiber optic cable, including, but not limited to OPGW, all dielectric self-supporting (ADSS) cable and underground fiber optic cable, it shall be installed by Generator. Generator shall, at its cost, engineer, furnish, and install at its Substations an all dielectric fiber optic station entrance cable system to ensure that no fiber optic cable with metallic members is extended into the Substation control building. Fiber optic cable with metallic members includes, but is not limited to, OPGW, fiber optic cable with an integral trace wire, and metallic-armored fiber optic cable. The all-dielectric fiber optic station entrance cable system shall include all-dielectric fiber optic station entrance cable, the outdoor splice case, trays and fusion splice sleeves for the fiber optic cable to station entrance cable transition, the indoor splice housing,

trays and fusion splice sleeves, fiber pigtailed and the control building fiber distribution panel ("FDP"). If the GIF include fiber optic cable that contains no metallic members, it may be extended into each Substation control building without transitioning to the all-dielectric fiber optic station entrance cable noted above. The Generator shall, at its cost, at its Substation, perform splicing of all fibers in the transition splice and the FDP. The Generator, at its sole expense, will maintain in operating condition such fiber optic cable and associated station entrance cable systems at the Generator's Substation.

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

- a) TSP assumes no responsibility for the protection of the Plant and GIF for any or all operating conditions. Generator is solely responsible for protecting his equipment in such a manner that faults or other disturbances on the TSP system or other interconnected systems do not cause damage to the Plant and GIF.
- b) It is the sole responsibility of Generator to protect its Plant and GIF from excessive negative sequence currents.
- c) Automatic reclosing is normally applied to transmission and distribution circuits. When the TSP's source breakers trip and isolate the Plant and GIF, Generator shall insure that the Plant and GIF are disconnected from the TSP circuit prior to automatic reclosure by TSP. Automatic reclosing out-of-phase with the Plant may cause damage to Generator's equipment. The Generator is solely responsible for the protection of his equipment from automatic reclosing by TSP.
- d) For disturbance monitoring of the Generator's facilities, TSP requires a combination of SDR points and event recordings. SDR points are collected by TSP's SDRs. Event recordings are to be supplied to TSP by Generator from Generator's equipment. Each SDR and associated recording equipment will be paid for, owned and installed by TSP; installation shall be at either TSP's or Generator's facilities, as determined by TSP. If more than one (1) generator is connected to the low side of the step-up transformer or transmission line tied to TSP, the SDR and recording equipment will be installed at the generation plant. Such TSP recording equipment, consisting of one (1) or more intelligent electronic devices ("IED"), monitors the Generator's facilities and is polled by the SDR. For an SDR installed in Generator's facilities, Generator shall provide the cable and conduit for the SDR and the necessary connections to the recording equipment; TSP will terminate the signal connections in the SDR and recording equipment. A project-specific SDR points list will be developed by TSP based upon the project's electrical configuration. For such purpose the Generator shall be responsible for providing TSP with one-line diagrams of the Generator's facilities.
- e) For thermal powered generation, Generator will be required, upon request by TSP, to provide event recordings per generation unit in a format satisfactory to TSP. For all other generation, Generator will be required, upon request by TSP, to provide event recordings per collection feeder in a format satisfactory to TSP. All disturbance monitoring equipment shall be equipped for time synchronization. The monitoring requirement of TSP does not reduce the Generator's obligation to meet all disturbance monitoring requirements of NERC.
- f) Documentation of all protective device settings shall be provided to TSP. The setting documentation shall also include relay type, model/catalog number, and setting range. If

automatic transfer schemes or unique or special protective schemes are used, a description of their operation should be included. TSP must review and approve the settings of all protective devices and automatic control equipment which: 1) serve to protect the TSP System from hazardous currents and voltages originating from the Plant or 2) must coordinate with System Protection Equipment or control equipment located on the TSP System.

11. **Inputs to Telemetry Equipment:** Telemetry is an ERCOT requirement that must be discussed and determined between ERCOT and Generator and installed by Generator as, if, and when required by ERCOT.

12. **Supplemental Terms and Conditions, if any, attached:**

If it is necessary for TSP to perform any additional generation interconnection studies associated with the Plant in accordance with ERCOT Requirements, the Parties will enter an agreement to perform those studies and Generator shall pay TSP for the studies pursuant to that agreement.

The following supplemental terms and conditions shall be met unless there is a conflict between these terms and conditions and the ERCOT Requirements, in which case the ERCOT Requirements shall govern. Such ERCOT Requirements include, but are not limited to ERCOT Protocols sections 1.3.1, 6.57, 6.7.6, 6.10.3, 12.2, and 12.3; ERCOT Operating Guides sections 2.2.4, 2.10, 3.1.4, and 7.2.2; ERCOT Operations Procedure Steady-State Voltage Control Procedures; and ERCOT Nodal Operating Guide 2.2.6 Power System Stabilizers.

- a) Each Party shall be consulted during the planning and design process of the Plant, GIF, and TIF. The engineering and design work (including drawings, plans, materials lists, specifications and other documentation and supporting data) will be prepared in accordance with recognized industry standards and all applicable laws, rules and regulations, and is intended to be used solely in connection with the construction of the Plant, GIF and TIF. Neither Party shall make use of any aspect of the engineering and design work of the other Party for any other projects without the prior written consent of the other Party. Each Party may provide its contractors with copies of the engineering and design work of the other Party in connection with the construction of the Plant, GIF and TIF, provided that i) the Party's contractor agrees in writing that the engineering and design work is intended to be used solely in connection with the construction of the Plant, GIF and TIF, and ii) the Party's contractor shall not make use of any aspect of the engineering and design work on any other projects without the prior written consent of the other Party. Each Party agrees to obtain the written agreement of such contractors prior to providing them with the engineering and design work and to promptly provide the other Party with a copy of that agreement.
- b) If wye delta connected transmission voltage step up transformers are utilized, they shall be wye connected to the TIF and delta connected to the GIF.
- c) Generator shall submit drawings of the GIF to TSP for review. TSP will review only those portions of the drawings that affect the TSP System. Any changes required by TSP shall be made prior to final issue of drawings and TSP shall be provided with final copies of the revised drawings. TSP will review only those portions of the drawings, which apply to protection, metering and monitoring which affect the TSP System. To aid the Generator, TSP may make suggestions on other areas. TSP's review of Generator's

drawings shall not be construed as confirming or endorsing the design or as any warranty of safety, durability or reliability of the facility or equipment. Generator shall provide copies of the following:

- i) one-line and three-line diagrams indicating the following:
 - A) equipment names and/or numerical designations for all circuit breakers, contactors, air switches, transformers, generators, etc., associated with the generation as required by TSP to facilitate switching
 - B) power transformers – name or designation, nominal kVA, nominal primary, secondary, tertiary voltages, vector diagram showing winding connections, tap setting and transformer impedance impedances (transformer test report showing the positive sequence, zero sequence, test voltages and MVA base for each winding).
 - C) station service transformers – phase(s) connected to and estimated kVA load
 - D) instrument transformers – voltage and current, phase connections.
 - E) surge arresters/gas tubes/metal oxide varistors/avalanche diode/spill gaps/surge capacitors, etc. – type and ratings
 - F) capacitor banks – kVAR rating and reactive (static and dynamic) device operation capability
 - G) reactive device capability – kVAR rating and reactive device operation capability for static and dynamic devices for each generation collection feeder
 - H) disconnect switches – status if normally open (N.O.), manual or motor operated including switch voltage, continuous and interrupting ratings
 - I) circuit breakers and/or contactors – interrupting rating, continuous rating, operating times
 - o generators(s) – nameplate, test report, type, connection, kVA, voltage, current, rpm, power factor, impedances, time constants, etc.
 - o Point of Interconnection and phase identification
 - o Fuses – manufacturer, type, size, speed, and location
 - o transmission structure geometry (phase to phase, phase to ground, and shield to phase), phase conductor data, shield wire data, transmission line ratings, positive and zero sequence impedances and mileage.
- ii) potential and current elementary drawings associated with the protection and control schemes for the Plant and GIF and control elementary drawings of the Plant and interconnection circuit breaker indicating the following:
 - A) terminal designation of all devices – relay coils and contacts, switches, transducers, etc.
 - B) relay functional designation – per latest ANSI Standard where the same functional designation shall be used on all drawings showing the relay
 - C) complete relay type (such as CV-2, SEL321-1, REL-301, IJS51A, etc.)

- D) switch contact shall be referenced to the switch development if development is shown on a separate drawing.
 - E) switch developments and escutcheons where the majority of contacts are used. Where contacts of a switch are used on a separate drawing, that drawing should be referenced adjacent to the contacts in the switch development. Any contacts not used should be referenced as spare.
 - F) all switch contacts are to be shown open with each labeled to indicate the positions in which the contact will be closed with explanatory notes defining switch coordination and adjustment where misadjustment could result in equipment failure or safety hazard
 - G) auxiliary relay contacts shall be referenced to the coil location drawing if coil is shown on a separate drawing where all contacts of auxiliary relays should be shown and the appropriate drawing referenced adjacent to the respective contacts
 - H) device auxiliary switches (circuit breakers, contactor) should be referenced to the drawing where they are used.
 - I) any interlocks - electromechanical, key, etc., associated with the generation or interconnection substation.
 - J) ranges of all timers and setting if dictated by control logic
 - K) all target ratings; on dual ratings note the appropriate target tap setting
 - L) complete internal for electromechanical protective relays where microprocessor type relays may be shown as a "black box", but manufacturer's instruction book number shall be referenced and terminal connections shown
 - M) isolation points (states links, PK-2 and FT-1 blocks), etc., including terminal identification
 - N) all circuit elements and components, with device designation, rating and setting where applicable and where coil voltage is shown only if different from nominal control voltage
 - O) size, type, rating, and designation of all fuses
 - P) phase sequence designation as ABC or CBA
 - Q) potential transformers – nameplate ratio, polarity marks, rating, primary and secondary connections
 - R) current transformers (including aux. CT's) – polarity marks, rating, tap ratio and connection
- iii) transformer nameplate and test report
- d) Generator may not commence parallel operation of the Plant until consent has been given by TSP. TSP reserves the right to inspect the GIF and witness testing of any equipment or devices associated with the Point of Interconnection.
 - e) The Plant and GIF shall not cause objectionable interference with the electric service provided to other customers by TSP nor jeopardize the security of the ERCOT power system. In order to minimize objectionable interference of the Plant and GIF, the Plant and GIF shall meet the following criteria:
 - i) Voltage - The Plant and GIF shall not cause excessive voltage excursions. Generator shall operate its Plant and GIF in such manner that the voltage levels on

- the TSP System arc in the same range as if the Plant and GIF were not connected to the TSP System. Generator shall provide an automatic method of disconnecting its Plant and GIF from the TIF to protect against excessive voltage excursions.
- ii) Flicker - The Plant and GIF shall not cause excessive voltage flicker on the TSP System. Flicker is to be measured at the Point of Interconnection and shall not exceed 1.5% or the Borderline of Visibility Curve Voltage Flicker Chart of ANSI/IEEE Standard 141-1993, whichever is less.
 - iii) Frequency – The operating frequency of the Plant shall not deviate from the frequency of the TSP System. Plant under frequency relays shall be set the same as TSP's under frequency relays, so that the Plant will not separate from the TSP System during under frequency conditions until all of TSP's under frequency load shedding equipment has operated. Generator will provide settings prior to commercial operation.
 - iv) Harmonics, Telephone Interference, and Carrier Interference - The Plant and GIF shall not introduce excessive distortion of the TSP System waveforms; voltage and current; telephone interference; or carrier interference at the Point of Interconnection. IEEE Standard 519 shall be used as a guide.
 - v) Fault and Line Clearing - The Plant and GIF shall be disconnected from the TSP System on occurrence of an outage or fault on the TIF serving the Plant radially. Generator is responsible for the electrical stability of its Plant and providing adequate facilities so that critical fault clearing times are met.
 - vi) All Generation Resources (including self-serve generating units) that have a gross generating unit rating greater than twenty (20) MVA or those units connected at the same Point of Interconnection that have gross generating unit ratings aggregating to greater than twenty (20) MVA, that supply power to the ERCOT Transmission Grid, shall provide Voltage Support Service (VSS).
 - vii) Reactive Power Requirements – Generation Resources must be capable of producing a defined quantity of Reactive Power to maintain a Voltage Profile established by ERCOT as described in Protocols 6.5.7 and 6.5.7.1 The generator voltage-var schedule, voltage regulator, and transformer ratio settings will be jointly determined by TSP and Generator to ensure proper coordination of voltages and regulator action. The Plant must generate reactive requirements for the Plant and GIF. TSP may, in order to maintain security of the ERCOT power system, request Generator to adjust voltage schedule to accept or supply reactive power. The TSP will not energize the TIF until the Generator has provided the TSP with documentation that the ERCOT Requirement has been met.
 - A) Synchronous Generators - Shall comply with the following Reactive Power requirements: an over-excited (lagging) power factor capability of ninety-five hundredths (0.95) or less and an under-excited (leading) power factor capability of ninety-five hundredths (0.95) or less, both determined at the generating unit's maximum net power to be supplied to the ERCOT Transmission Grid and at the transmission system Voltage Profile established by ERCOT, and both measured at the Point of Interconnection. The Reactive Power requirements shall be available at all MW output levels.
 - B) Induction Generators - Shall comply with the following Reactive Power requirements: an over-excited (lagging) power factor

capability of ninety-five hundredths (0.95) or less and an underexcited (leading) power factor capability of ninety-five hundredths (0.95) or less, both determined at the generating unit's maximum net power to be supplied to the ERCOT Transmission Grid and at the transmission system Voltage Profile established by ERCOT, and both measured at the Point of Interconnection. The Reactive Power requirements shall be available at all MW output levels and may be met through a combination of the Generation Resource's Unit Reactive Limit (URL), which is the generating unit's dynamic leading and lagging operating capability, and/or dynamic VAR capable devices. For Generation Resources ("GR"), the Reactive Power requirements shall be available at all MW output levels at or above ten percent (10%) of the GR's nameplate capacity. When a GR is operating below ten percent (10%) of its nameplate capacity and is unable to support voltage at the Point of Interconnection, ERCOT may require a GR to disconnect from the ERCOT System.

- C) Other Generators - Shall comply with the following Reactive Power requirements: an over-excited (lagging) power factor capability of ninety-five hundredths (0.95) or less and an underexcited (leading) power factor capability of ninety-five hundredths (0.95) or less, both determined at the generating unit's maximum net power to be supplied to the ERCOT Transmission Grid and at the transmission system Voltage Profile established by ERCOT, and both measured at the Point of Interconnection. The Reactive Power requirements shall be available at all MW output levels.
- viii) The dynamic MVAR capability at the current MW generation amount shall be provided in real time. If this dynamic MVAR capability is not available in real time, a dynamic capability curve plotted as a function of MW output shall be provided. The shunt static reactive available, but not in service, shall be provided in sufficient detail to determine the amount of dynamic and static reactive reserve available.
- ix) Excitation System and Automatic Voltage Regulation – A Plant excitation system response ratio shall not be less than 0.5 (five-tenths). It shall conform, as near as achievable, to the field voltage vs. time criteria specified in American National Standards Institute Standard C50.13-1989 in order to permit adequate field forcing during transient conditions. A power system stabilizer ("PSS") shall be installed on each new generating unit to be interconnected unless specifically exempted from this requirement by ERCOT. The Generator shall determine the PSS settings to dampen local area modes with oscillations within the range of 0.2 Hz to 2 Hz. The PSS settings shall be tested and tuned for adequate damping during PSS commissioning. Final PSS settings shall be provided to ERCOT and TSP within thirty (30) days of commissioning. The PSS shall be kept in service and maintained in working order throughout the service life of the Plant. Energy farms are induction in nature and are exempt from the PSS requirement. Each generator's exciter and exciter controls shall have a ride-through capability for significant system voltage disturbances (i.e., utilize UPS or DC design). Generator

shall maintain the AVR of each generating unit in service and operable at all times. If the AVR is removed from service for maintenance or repair, TSP shall be notified.

- x) Governor System – Plant governors shall be able to respond to interconnection frequency deviations and help return interconnection frequency to normal following an upset on the ERCOT system to assist in maintaining interconnection stability.
- xi) Sub-Synchronous Resonance (“SSR”) and Sub-Synchronous Interaction (“SSI”) – Induction generation placed near series capacitor banks on the TSP system may be susceptible to SSR. Control systems may be a source of synchronous oscillations near series capacitor banks resulting in SSI. Generator will provide studies that document that SSR or SSI issues have been addressed prior to commercial operation. TSP will work with Generator and their selected turbine manufacturer on any system data required for such studies.
- f) Generator shall not energize a de-energized TIF circuit, unless under direction of TSP. The line switch should have dual locks to allow Generator and TSP to lock it for clearances.
- g) Generator shall maintain an operating log at each generating unit at the Plant that at a minimum will indicate changes in operating status (available or unavailable), maintenance outages, trip indications or other unusual conditions found upon inspection. For generators that are “block-loaded” to a specific MW level, changes in this setting shall also be logged. TSP may waive this requirement at its discretion. Reliability information, as required by ERCOT Requirements, will be maintained by Generator.
- h) TSP considers the energy and power that the Plant and GIF may from time to time consume from the transmission grid through the Point of Interconnection to be a retail transaction and as such, TSP does not intend to be the provider of this retail service. Generator shall make necessary arrangements with the appropriate retail supplier for the energy and power that the Plant and GIF may consume from the transmission grid through the Point of Interconnection.
- i) Generator shall notify TSP in writing as to which initial ERCOT Qualified Scheduling Entity the Plant will be scheduling through and any changes made thereafter.
- j) Upon written request from TSP, Generator shall supply notification to TSP identifying their retail service provider.
- k) Upon written request from either Party, the other Party shall provide the requesting Party any necessary land easements required for the construction, operation, and maintenance of the Plant, TIF, or GIF at no cost to the requesting Party.
- l) Generator shall use Reasonable Efforts to change the GIF as may be reasonably required by TSP to meet future changes in the TSP System. Generator shall be given reasonable notice by TSP prior to the date that any such required change in the GIF must be made.
- m) If this Agreement is executed prior to any required ERCOT approval of the TIF and ERCOT does not approve the TIF, Generator and TSP will work together to mitigate as much as possible the impact of such ERCOT decision.
- n) TSP will submit to ERCOT a request for Regional Planning Group (RPG) processing and an ERCOT independent economic analysis for transmission projects greater than Twenty-five Million Dollars (\$25,000,000).
- o) Plant Name and Device Numbers — Generator and TSP will collaborate and reach mutual agreement on the establishment of: i) a unique name(s) for the Generator's substations, unit main transformers, and switching station(s) connected at transmission

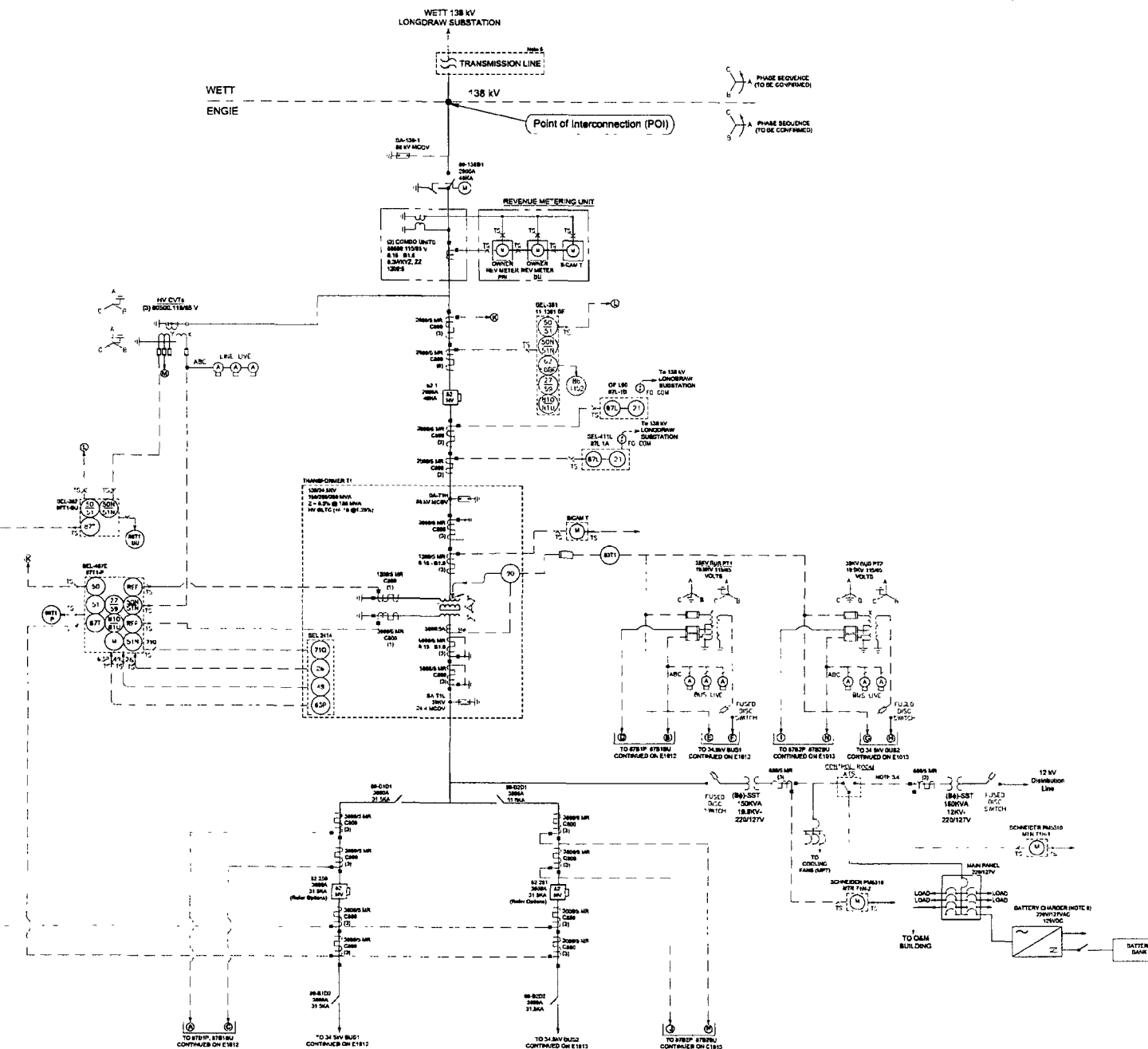
voltage, ii) device numbers for all transmission voltage level switches and breakers which will be owned by Generator, and iii) unique names for Generator's generating units, in accordance with ERCOT Requirements. Generator will submit to TSP, within thirty (30) days after execution of this Agreement, its proposed name(s), as referenced in this paragraph. Generator will register the name(s) of the facilities specified in this paragraph 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 mutually agreed upon pursuant to this paragraph. Generator will not change any of the names or device numbers, established pursuant to this paragraph, without written approval of TSP.

13. Special Operating Conditions, if any, attached:

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. In the event that ERCOT determines that such an arrangement is permitted, then TSP agrees to reasonably cooperate in the design and installation of the necessary facilities, provided that such design and installation does not impair TSP's electric system or any interconnections between TSP and any other existing generator. As a condition precedent to making any additional improvements or performing additional construction in relation to any Remedial Action Plan or Special Protection System, WETT reserves the right to require payment of one or more non-refundable contributions in aid of construction from the Generator.

- a) For generation greater than 50 MW, the Generator shall notify TSP with at least thirty (30) minutes in advance anytime the reactive capability is expected to deviate by more than 10% from the reactive capability curves provided in accordance with Section 12 (e) (vii) above or any time the Generator expects generation rate changes greater than 25 MW per minute.
- b) Generator shall use commercially reasonable efforts to notify TSP thirty (30) minutes or more in advance anytime a static or dynamic reactive device will be taken out of service and unavailable for system use.
- c) Generator shall limit the park ramp rate to no more than 10% per minute of installed nameplate capacity. It is understood the sudden loss of a power source may result in a downward ramp rate greater than 10%.

Attachment 1 to Exhibit "C"
One Line Diagram



- NOTES
1. CONTRACTOR TO PROVIDE ADEQUATE SPACE TO INCLUDE TUNING REACTORS IF DEEMED NECESSARY TO CURTAIL HARMONICS. THE CAPACITORS UTILIZED SHALL ALSO BE FACTER READY.
 2. THE CAPACITOR BUSES ARE PRELIMINARY AND SHALL BE FINALIZED BASED ON THE LOAD FLOW AND HARMONIC STUDY PERFORMED BY THE CONTRACTOR.
 3. SIGN OF ALL AUXILIARY SUPPLY AND EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR. THE DRAWING BELOW PROVIDES A GENERAL SCHEMATIC ONLY.
 4. UPS REQUIRED FOR CRITICAL OPERATIONAL EQUIPMENT REQUIRING EMERGENCY POWER BACKUP SHALL PROVIDE A MINIMUM OF 8 HOURS OF SERVICE WITH A FINAL DISCHARGE VOLTAGE AT OR ABOVE 108 VDC. CONTRACTOR TO PROVIDE SEPARATE OPTIONAL PRICING FOR 12 HRS BATTERY BACKUP.
 5. TRANSMISSION LINE DESIGN AND CONSTRUCTION TO BE COMPLETED BY WETT. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH WETT AND INSTALLING A JUMPER TO THE CLOSEST STRUCTURE OUTSIDE THE PROJECT SUBSTATION.
 6. A BATTERY BATTERY CHARGER IS REQUIRED FOR THIS PROJECT.
- OPTIONS
1. PLEASE PROVIDE SEPARATE PRICING FOR OPTION 1 AS SHOWN IN DASHLINE WITH MARK MV BREAKERS.
 - OPTION 2: MAIN MOTORIZED BY SWITCHES (NO MAIN MV BREAKERS)

LEGEND	
	CIRCUIT BREAKER
	CAPACITOR VOLTAGE TRANSFORMER
	CURRENT TRANSFORMER
	MOTOR OPERATED THREE-POSITION DISCONNECT & GROUNDING SWITCH
	TEST SWITCH
	FUSE
	POTENTIAL TRANSFORMER
	TERMINAL
	METER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	SURGE ARRESTER
	TRANSMISSION LINE
	CAPACITOR BANK
	CAP SWITCHER
	AUTOMATIC TRANSFER SWITCH
	M.C.M. C.B.
	FAULT INDICATOR

engie

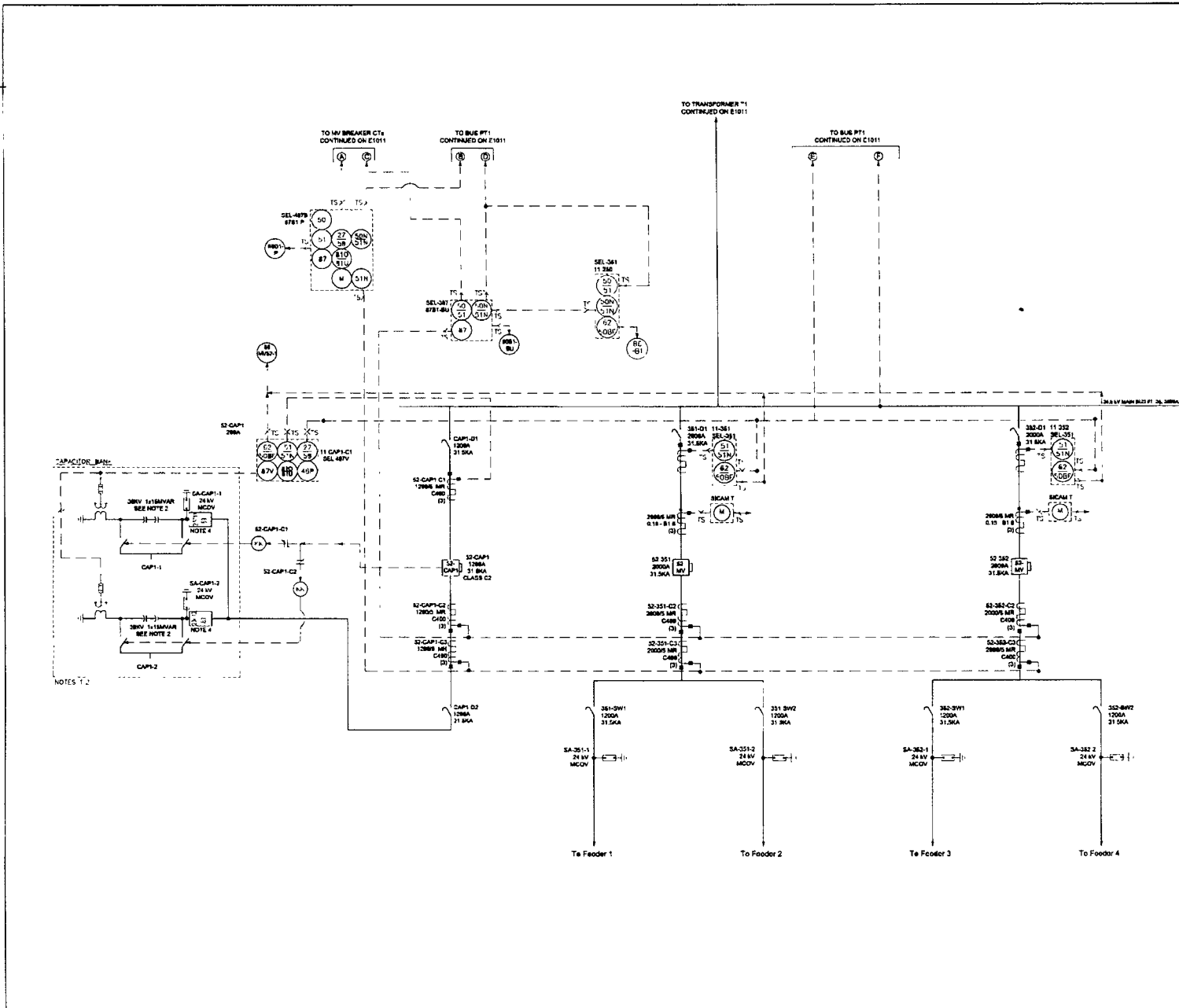
PROJECT
ENGIE LONG DRAW SOLAR

DRAWING TITLE
SUBSTATION SINGLE LINE - 1 (ALT)

DESIGNED	SIGNATURE FOR SD	DATE	SHEET SIZE
VR		03/27/2019	A0
DRAWN	CHECKED	APPROVED	DWG STATUS
MZ	-	-	NTS
			MM/YYYY
			MM/YYYY
			MM/YYYY

SD DRAWING NUMBER
E 1101A

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- NOTES
1. CONTRACTOR TO PROVIDE ADEQUATE SPACE TO INCLUDE TUNING REACTORS IF DEEMED NECESSARY TO CURB HARMONICS. THE CAPACITORS UTILIZED SHALL ALSO BE FILTER READY.
 2. THE CAPACITOR SIZES ARE PRELIMINARY AND SHALL BE FINALIZED BASED ON THE LOAD FLOW AND HARMONICS STUDY PERFORMED BY THE CONTRACTOR.
 3. SIZING OF ALL AUXILIARY SUPPLY AND EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR. THE DRAWING BELOW PROVIDES A GENERAL SCHEMATIC ONLY.
 4. IF OUTRUSH REACTORS ARE DEEMED TO BE REQUIRED THE CAP SWITCHES MAY BE REPLACED BY OUTRUSH REACTORS.

LEGEND

	CIRCUIT BREAKER
	CAPACITOR VOLTAGE TRANSFORMER
	CURRENT TRANSFORMER
	MOTOR OPERATED THREE POSITION DISCONNECT & GROUNDING SWITCH
	TEST SWITCH
	FUSE
	POTENTIAL TRANSFORMER
	TERMINAL
	MUTTER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	SURGE ARRESTER
	TRANSMISSION LINE
	CAPACITOR BANK
	CAP SWITCH
	AUTOMATIC TRANSFER SWITCH
	M.C.B.M.C.C.D.
	FAULT INDICATOR
	HOOKESTICK SWITCH

ENGIE

PROJECT

ENGIE LONG DRAW SOLAR

DRAWING TITLE

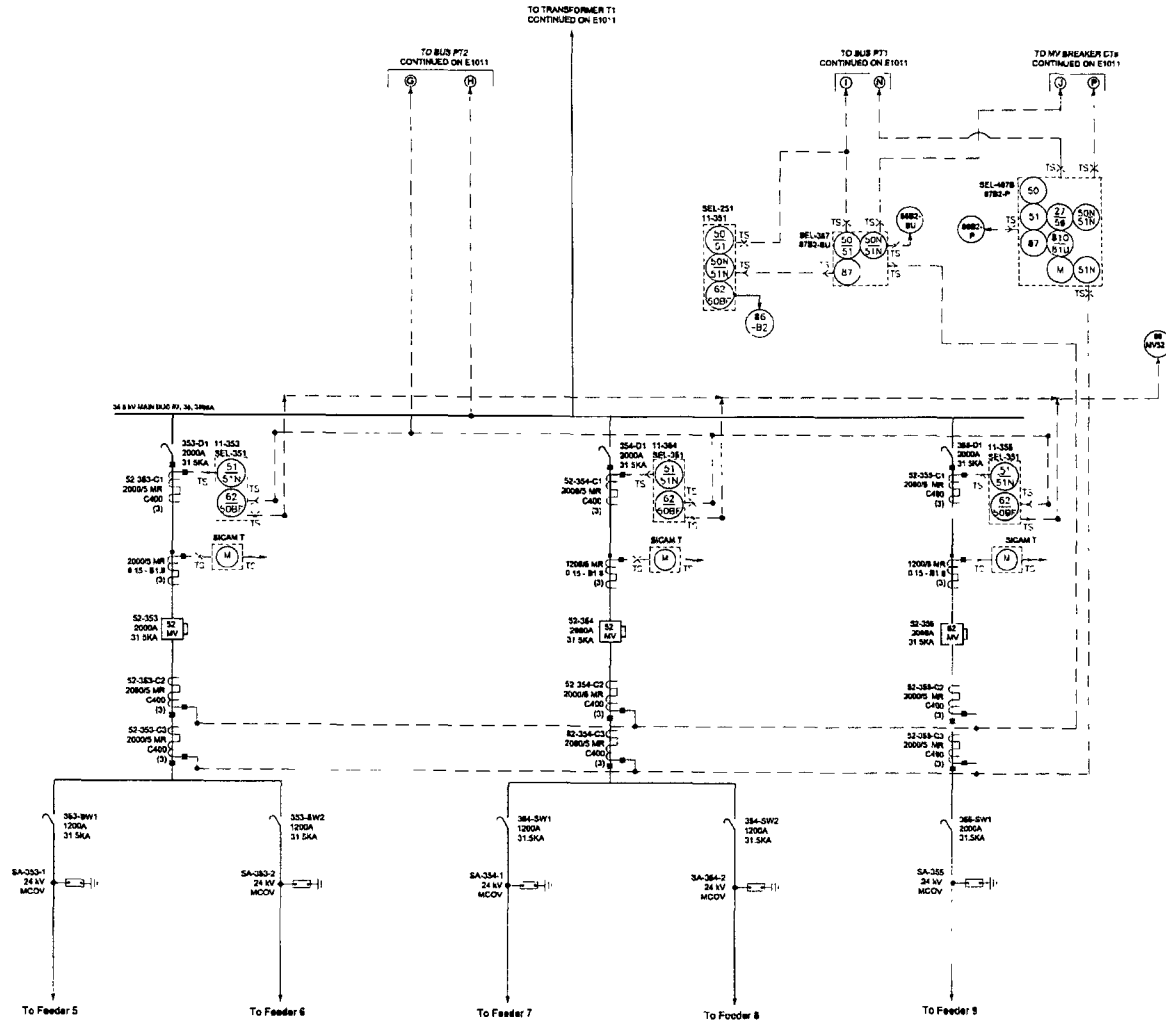
SUBSTATION SINGLE LINE - 2 (ALT)

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DRAWN	MZ	DATE	03/27/2019	SCALE	SCALE
CHECKED	-	DATE	MM/YYYY	NTS	NTS
APPROVED	-	DATE	MM/YYYY	DWG STATUS	I=INFO

SD DRAWING NUMBER

E 1102A

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- NOTES
1. CONTRACTOR TO PROVIDE ADEQUATE SPACE TO INCLUDE TUNING REACTORS IF DEEMED NECESSARY TO CURTAL HARMONICS. THE CAPACITORS UTILIZED SHALL ALSO BE FILTER READY.
 2. THE CAPACITOR BUSES ARE PRELIMINARY AND SHALL BE FINALIZED BASED ON THE LOAD FLOW AND HARMONICS STUDY PERFORMED BY THE CONTRACTOR.
 3. BEING OF ALL AUXILIARY SUPPLY AND EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR. THE DRAWINGS BELOW PROVIDED A GENERAL SCHEMATIC ONLY.
 4. IF OUTRUSH REACTORS ARE DEEMED TO BE REQUIRED, THE CAP SWITCHES MAY BE REPLACED BY OUTRUSH REACTORS.

LEGEND

	CIRCUIT BREAKER
	CAPACITOR VOLTAGE TRANSFORMER
	CURRENT TRANSFORMER
	MOTOR OPERATED DISCONNECT & GROUNDING SWITCH
	TEST SWITCH
	FUSE
	POTENTIAL TRANSFORMER
	TERMINAL
	METER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	SURGE ARRESTER
	TRANSMISSION LINE
	CAPACITOR BANK
	CAP SWITCHER
	AUTOMATIC TRANSFER SWITCH
	M C B M C C B
	FAIL INDICATOR
	HOOKESTICK SWITCH

ENGIE

PROJECT
ENGIE LONG DRAW SOLAR

DRAWING TITLE
SUBSTATION SINGLE LINE - 3 (ALT)

DESIGNED	VR	SIGNATURE FOR SD	DATE	03/27/2019	SHEET SIZE	A0
DRAWN	MZ		DATE	03/27/2019	SCALE	
CHECKED	-		DATE	MM/YYYY	NTS	
APPROVED	-		DATE	MM/YYYY	DWG STATUS	I=INFO

SD DRAWING NUMBER

DWG
E 1103A
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Exhibit "D"

Notice and EFT Information of the Generation Interconnection Agreement

(a) All notices of an operational nature shall be in writing and/or may be sent between the Parties via electronic means including facsimile as follows:	
<p>If to TSP:</p> <p>Wind Energy Transmission Texas, LLC Attn: Operations Director 1901 Capital Parkway, Suite 200 Austin, Texas, 78746 24 Hour Telephone (512) 436-9404 Operational/Confirmation Fax (512) 436-9502 E-mail: aaron.brooks@windenergyoftexas.com</p>	<p>If to Generator:</p> <p>ENGIE Long Draw Solar, LLC Attn: Asset Optimization Director 1990 Post Oak Blvd. Suite 1900 Houston, Texas 770056 24 Hour Telephone (713) 636-1182 e-mail: Carolyn.Bultena@engie.com</p>
(b) Notices of an administrative nature:	
<p>If to TSP:</p> <p>Wind Energy Transmission Texas, LLC Attn: Contracts Manager 1901 Capital Parkway, Suite 200 Austin, Texas, 78746 Phone: (512) 279-7389 Fax: (512) 279-7398 E-mail: pat.burnett@windenergyoftexas.com</p>	<p>If to Generator:</p> <p>ENGIE Long Draw Solar, LLC Attn: Asset Optimization Director 1990 Post Oak Blvd. Suite 1900 Houston, Texas 770056 24 Hour Telephone (713) 636-1337 e-mail: Carolyn.Bultena@engie.com Copy to: daniel.skizim@engie.com</p>
(c) Notice for statement and billing purposes:	
<p>If to TSP:</p> <p>Wind Energy Transmission Texas, LLC Attn: Vice President Finance 1901 Capital Parkway, Suite 200 Austin, Texas, 78746 Phone: (512) 279-7379 E-mail: accounting@windenergyoftexas.com</p>	<p>If to Generator:</p> <p>ENGIE Long Draw Solar, LLC Attn: Accounts Payable 1990 Post Oak Blvd. Suite 1900 Houston, Texas 770056 e-mail: ap@na.engie.com Copy to: daniel.skizim@engie.com</p>
(d) Information concerning electronic funds transfers:	
<p>If to TSP:</p> <p>Wind Energy Transmission Texas, LLC Attn: Vice President Finance 1901 Capital Parkway, Suite 200 Austin, Texas, 78746 Phone: (512) 279-7379 E-mail: accounting@windenergyoftexas.com</p>	<p>If to Generator:</p> <p>ENGIE Long Draw Solar, LLC Attn: Accounting Department 1990 Post Oak Blvd. Suite 1900 ABA No. 021 000 021 Account No. 780179433 e-mail: ap@na.engie.com Copy to: daniel.skizim@engie.com</p>