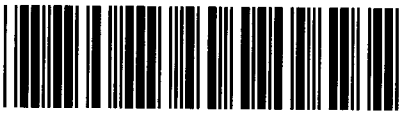
Control Number: 35077



Item Number: 490

Addendum StartPage: 0

Project No. 35077

Second Amendment to

INTERCONNECTION AGREEMENT

Between

San Marcos Electric Utility

and

LCRA Transmission Services Corporation

Dated
September 26, 2014

490

SECOND AMENDMENT TO
INTERCONNECTION AGREEMENT

This Second Amendment ("Amendment") is made and entered into this 26 day of September, 2014, between the San Marcos Electric Utility ("City") and LCRA Transmission Services Corporation ("LCRA TSC"), collectively referred to hereinafter as the Parties.

WHEREAS, LCRA TSC and the City entered into that certain Interconnection Agreement executed as of May 26, 2009, as amended by that certain Amendment No. 1 executed as of April 18, 2013 and;

WHEREAS, the City replaced transformers T-1 and T-2 and added additional distribution bays at San Marcos Substation.

NOW, THEREFORE, in consideration of the mutual promises and undertakings herein set forth, the Parties agree to amend the Agreement as follows:

1. Exhibit "A" attached to the Agreement is deleted in its entirety and the Exhibit "A" attached to this Second Amendment is hereby added to the Agreement in lieu thereof.

2. Exhibit "A" attached to this Amendment No. 2 will become effective upon execution of this Amendment No. 2 by the Parties.

3. Facility Schedule No. 6 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 6 attached to this Second Amendment is hereby added to the Agreement in lieu thereof.

4. Facility Schedule No. 6 (including the diagrams attached thereto) attached to this Second Amendment will become effective upon execution of this Second Amendment by the Parties.

Except as otherwise expressly provided for herein, the Agreement will continue in full force and effect in accordance with its terms.

---The remainder of this page has intentionally been left blank. ---

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

SAN MARCOS ELECTRIC UTILITY

By: _____

Name: Jared Miller

Title: City Manager

Date: 09/26/2014

LCRA TRANSMISSION SERVICES CORPORATION

By: _____

Name: Ray Pfefferkorn, P.E.

Title: LCRA Transmission Engineering Manager

Date: 9/12/14

EXHIBIT A

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (kV)	EFFECTIVE DATE OF INTERCONNECTION
1	Hilltop Substation (4)	138 kV	May 26, 2009
2	Strahan Substation (1)	12.5 kV	April 18, 2013
3	McCarty Lane Substation (6)	12.5 kV	May 26, 2009
4	Ranch Road 12 Substation (1)	138 kV	May 26, 2009
5	Redwood Substation (12)	2 @ 138kV; 10 @ 12.5kV	May 26, 2009
6	San Marcos Substation (4)	138 kV	Date of 2nd Amendment
7	Canyon Substation (4)	12.5 kV	May 26, 2009

FACILITY SCHEDULE NO. 6

1. **Name:** San Marcos Substation

2. **Facility Location:** The San Marcos Substation is located at 1301 River Road, San Marcos, Hays County, Texas.

3. **Points of Interconnection:** There are four (4) points of interconnection at San Marcos Substation generally described as:

   - where the jumper from switch 3942 on the transformer bus for power transformer T-1 connects to the 138 kV operating bus.
   - where the jumper from switch 3944 on the transformer bus for power transformer T-1 connects to the 138 kV transfer bus.
   - .where the jumper from switch 4986 on the transformer bus for power transformer T-2 connects to the 138 kV operating bus.
   - where the jumper from switch 4987 on the transformer bus for power transformer T-2 connects to the 138 kV transfer bus.

4. **Transformation Services Provided by LCRA TSC:** No

5. **Metering Services Provided by LCRA TSC:** Yes

6. **Delivery Voltage:** 138 kV

7. **Metered Voltage and Location:** The metered voltage is 12.5 kV. The metering current transformers are located in the two power transformers (T-1 and T-2). The two metering potential transformers are located on the two 12.5 kV operating buses.

8. **One Line Diagram Attached:** Yes

9. **Description of Facilities Owned by Each Party:**

   San Marcos Electric Utilities owns:

   - Two (2) transformers T-1 and T-2 with associated surge arresters
   - Two (2) circuit switchers CS-4975 and CS-4985
   - Six (6) 138 kV disconnect switches 4974, 3942, 3944, 4984, 4986 and 4987.
   - Jumpers from the disconnect switches 3942, 3944, 4986 and 4987 to the Points of Interconnection at the 138 kV operating and transfer buses.
   - 138 kV transformer bus with associated steel structures and insulators
   - Two (2) 138 kV surge arresters SA-7 and SA-9
   - All distribution and total circuit breakers including jumpers, protective relay packages and foundations.
   - All distribution and total bays including A-frames, trusses, foundations, insulators, disconnect switches, surge arresters, 12.5 kV operating and transfer

bus, and bus potential transformers
- Two (2) station service SS-1 and SS-2

LCRA TSC owns:
The San Marcos Substation including, but not limited to, the following items:
- The site (property), including site work, fence, gravel, ground grid and other appurtenances
- 138 kV operating and transfer bus
- One (1) 138 kV bus potential transformer PT-1
- One (1) 138 kV bus differential and breaker failure relaying scheme
- Two (2) metering package
- One (1) 138 kV surge arrester SA-6
- Underfrequency relay panel
- Control house and station battery

10. **Operational Responsibilities of Each Party:** Each Party will be responsible for the operation of the equipment it owns.

11. **Maintenance Responsibilities of Each Party:** Each Party will be fully responsible for the maintenance of the equipment it owns.

12. **Other Terms and Conditions:**
- The City and LCRA TSC are to share access to the substation by LCRA TSC locks in the gate and in the control house doors.
- The City will supply and allow LCRA TSC use of its 12.5 kV bus potential transformers PT-3 and PT-4 for metering.
- The City will supply and allow LCRA TSC use of transformer T-1 and T-2 metering current transformers for its metering.
- The City will supply and allow LCRA TSC use of transformer T-1 and T-2 relaying current transformers for LCRA TSC's bus differential & breaker failure relaying scheme.
- The City will provide breaker failure initiate contacts from its circuit switchers CS4975 and CS4985 relaying panel to LCRA TSC's bus differential & breaker failure relaying panel.
- LCRA TSC will provide tripping and close inhibit contacts from its bus differential & breaker failure relaying panel to City's circuit switchers CS4975 and CS4985 relaying panels.
- LCRA TSC will provide City access to 125 VDC and 120 VAC power. Circuits must have over current protection devices (OCPD) sized according to NEC standards. Panel boards containing the OCPD may belong to either LCRA TSC (if space is available) or City.
- The City will supply and allow LCRA TSC use of Station Service #1 and Station Service #2 for primary and backup station power.

- LCRA TSC and City shall design, provide, and coordinate their respective protection system equipment so that adjacent zones of protection overlap, in accordance with ERCOT Nodal Operating Guides.
- LCRA TSC will provide City with floor space (as available and as necessary) in its control house for the installation of City required panels and equipment.
- LCRA TSC will provide City with 138kV telemetry, including amps, watts, and vars.

SAN MARCOS ONE-LINE DIAGRAM