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Addendum StartPage: 0

**Project No. 35077**

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PUBLIC UTILITY COMMISSION  
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**Amendment No. 10 to**

**INTERCONNECTION AGREEMENT**

**Between**

**Guadalupe Valley Electric Cooperative, Inc.**

**and**

**LCRA Transmission Services Corporation**

**Dated**

**October 20, 2016**

687

**TENTH AMENDMENT TO  
INTERCONNECTION AGREEMENT**

This Tenth Amendment ("Amendment") is made and entered into this 20<sup>th</sup> day of October, 2016 between the Guadalupe Valley Electric Cooperative, Inc. ("GVEC") and LCRA Transmission Services Corporation ("LCRA TSC") collectively referred to hereinafter as the Parties.

**WHEREAS**, LCRA TSC and GVEC entered into that certain Interconnect Agreement executed February 8, 2011; as amended by that certain Amendment No. 1, executed as of August 26, 2011; as amended by that certain Amendment No. 2, executed as of October 13, 2011; as amended by that certain Amendment No. 3, executed as of November 30, 2011; as amended by that certain Amendment No. 4, executed as of December 19, 2011, as amended by that certain Amendment No. 5, executed as of February 16, 2012, as amended by that certain Amendment No. 6, executed as of April 25, 2013, as amended by that certain Amendment No. 7, executed as of July 29, 2013, as amended by that certain Amendment No. 8, executed as of December 19, 2014, and as amended by that certain Amendment No. 9, executed as of February 23, 2015 (collectively, as amended, the "Agreement");

**WHEREAS**, GVEC and LCRA TSC have planned for the Moulton South Substation to be installed in LCRA TSC's 138 kV circuit, T134, through Facility Schedule No. 28 as noted below:

**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" is deleted in its entirety and the Exhibit "A" attached to this Tenth Amendment is hereby added to the Agreement in lieu thereof.
2. Facility Schedule No. 28 (including the diagrams attached thereto) is hereby added to the Agreement.
3. Facility Schedule No. 28 (including the diagrams attached thereto) attached to this Tenth Amendment will become effective upon execution of this Tenth Amendment by the Parties.

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

By: Sam Argy

By: SERGIO GARZA



Date: Oct. 20, 2016

**Exhibit A**  
Amendment No. 10

<b>FACILITY SCHEDULE NO.</b>	<b>LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)</b>	<b>INTERCONNECTION VOLTAGE (KV)</b>	<b>EFFECTIVE DATE OF INTERCONNECTION</b>
1	Cuero (18)	12.5 kV	2/23/2015
2	Geronimo (4)	138 kV	7/29/2013
3	Gonzales (2)	138 kV	2/8/2011
4	Hallettsville (2)	138 kV	12/19/2014
5	FM 237 Yorktown (1)	138 kV	12/19/2014
6	Marion (2)	138 kV	8/26/2011
7	LCRA Nixon (15)	69 kV /138 kV	12/19/2014
8	Parkway (6)	138 kV	2/8/2011
9	Schumansville (1)	138 kV	2/8/2011
10	Seguin (6)	138 kV	2/23/2015
11	Seguin West (6)	138 kV	2/8/2011
12	Sweet Home (6)	24.9 kV	2/8/2011
13	Thompsonville (3)	4.16 kV	2/8/2011
14	Waelder (6)	12.5 kV	2/8/2011
15	Weiderstein (2)	138 kV	2/8/2011
16	Yoakum-Gartner (11)	12.5 kV	2/8/2011
17	York Creek (1)	138 kV	2/8/2011
18	Cheapside (2)	138 kV	2/8/2011
19	Pilot Grove (3)	138 kV	2/23/2015
20	Nordheim West (1)	138 kV	12/19/2014
21	Lost Creek (2)	138 kV	12/19/2014
22	Mont (1)	138 kV	2/16/2012
23	Lindenau (1)	138 kV	2/16/2012
24	Highway 123 (4)	138 kV	4/25/2013
25	Gillett (1)	138 kV	12/19/2014
26	Deer Creek (2)	69 kV/138 kV	12/19/2014
27	Shiner (3)	12.5 kV	2/23/2015
28	Moulton South (4)	138 kV	Date of 10 <sup>th</sup> Amendment
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## **FACILITY SCHEDULE NO. 28**

### **Amendment No 10**

1. **Name:** Moulton South Substation
2. **Facility Location:** The Moulton South Substation is located at 2719 State Hwy 95 North, Shiner, Lavaca County TX 77984.
3. **Points of Interconnection:** There are four (4) Points of Interconnection in the Moulton South Substation generally described as:
  - where the LCRA TSC jumper from the 138 kV Operating Bus #1 attaches to the four hole pad on GVEC switch 26809.
  - where the LCRA TSC jumper from the 138 kV Operating Bus #1 attaches to the four hole pad on GVEC switch 26839.
  - where the LCRA TSC jumper from the 138 kV Operating Bus #2 attaches to the four hole pad on GVEC switch 26829.
  - where the LCRA TSC jumper from the 138 kV Operating Bus #2 attaches to the four hole pad on GVEC switch 26859.
4. **Transformation Services Provided by LCRA TSC:** No
5. **Metering Services Provided by LCRA TSC:** Yes, per Wholesale Metering Services Agreement
6. **Delivery Voltage:** 138 kV
7. **Metered Voltage and Location:** The metering current transformer is located inside of the GVEC power transformer. The metering potential transformer is located on the 24.9 kV operating bus.
8. **One Line Diagram Attached:** Yes
9. **Description of Facilities Owned by Each Party:**

GVEC owns:

The Moulton South Substation including, but not limited to the following items:

- One (1) 138 kV mobile transformer connection point with disconnect switch 26828
- One (1) 138 kV transformer bus disconnect switch 26814
- Five (5) 138 kV circuit breakers 26810, 26820, 26840, 26850 and 26860 with associated jumpers, foundations and protective relaying
- Fourteen (14) 138 kV disconnect switches 26809, 26811, 26819, 26821, 26829,

- 26839, 26841, 26844, 26849, 26851, 26859, 26861, 26899 and 26919
- One (1) 138 kV/69 kV auto transformer AT3 with associated surge arresters
- Three (3) 69 kV circuit breakers 26930, 26940 and 26950 with associated jumpers, foundations and protective relaying
- Eight (8) 69 kV switches 26929, 26931, 26933, 26939, 26941, 26943, 26949 and 26951
- Two (2) 69 kV surge arresters SA6 and SA7
- Two (2) 69 kV coupling capacitor voltage transformer CCVT1 and CCVT2
- One (1) power transformer T1 with associated surge arresters
- One (1) 24.9 kV transformer bus disconnect switch T1-01
- All distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
- All distribution circuit breakers including jumpers, protective relay packages and foundations.
- All distribution and total bays including A-frames, trusses, insulators, disconnect switches, surge arresters, 24.9 kV operating and transfer bus, bus potential transformer and associated cabling
- One (1) station service SS1 with associated fuse F1
- One (1) Battery bank and charger
- One (1) control house
- One (1) MTU, MTU1
- Substation property, ground grid, gravel, fencing, and other appurtenances

LCRA TSC owns:

- Two (2) 138 kV A-frame dead-end structures foundations, insulators, and jumpers
- 138 kV Operating Bus #1 including structures, insulators, foundations, bus differential protective relaying, and jumpers
- 138 kV Operating Bus #2 including structures, insulators, foundations, bus differential protective relaying, and jumpers
- Three (3) 138kV circuit breakers 26870, 26880 and 26890 with foundations, jumpers and protective relaying
- Two (2) 138 kV surge arresters SA14 and SA15
- Two (2) coupling capacitor voltage transformers CCVT3 and CCVT4
- Six (6) 138 kV disconnect switches 26869, 26871, 26879, 26881, 26889 and 26891
- Jumpers from the 138 kV operating buses to GVEC switches 26809, 26829, 26839, 26859, 26899 and 26919
- One (1) metering package
- One (1) 60' communications monopole

**10. Operational Responsibilities of Each Party:** Each Party is 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:**

- GVEC 138 kV circuit breakers will be operated as switches in LCRA TSC's 138 kV circuit T134 until the LCRA TSC 138 kV line circuit breakers are installed.
- GVEC and LCRA TSC are to share access to the substation by LCRA TSC locks in the gate and in the control house doors.
- GVEC will supply and allow LCRA TSC use of its 138 kV circuit breakers 26810, 26820, 26840 and 26860 relaying bushing current transformers for LCRA TSC's 138 kV bus differential relaying scheme.
- LCRA TSC will provide tripping and close inhibit contacts from its 138 kV bus differential & breaker failure relaying panel to GVEC's 138 kV circuit breakers 26810, 26820, 26840 and 26860 relaying panels.
- GVEC will provide breaker failure initiate contacts from its circuit breakers 26810, 26820, 26840 and 26860 relaying panels to LCRA TSC's 138 kV bus differential & breaker failure relaying panel.
- LCRA TSC and GVEC shall design, provide, and coordinate their respective protection system equipment so that adjacent zones of protection overlap, in accordance with ERCOT Nodal Operating Guides.
- GVEC will provide LCRA TSC 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 GVEC (if space is available) or LCRA TSC.
- GVEC will provide LCRA TSC with floor space (as available and as necessary) in its control houses for the installation of LCRA TSC required relay panel boards and equipment.
- GVEC shall supply and provide metering current transformers from power transformer T1 for LCRA TSC metering.
- GVEC shall supply and provide 24.9 kV bus potential transformers for LCRA TSC metering.
- GVEC will provide and supply LCRA TSC space for the installation of a 60' communications monopole adjacent to the control house within the substation. LCRA TSC will provide GVEC with space (as available and as necessary) on its communications monopole for the installation of GVEC communications equipment and camera, after LCRA TSC structural analysis.
- GVEC will provide property space on the North side of the substation for installation of a LCRA TSC transmission line structure that will encompass the transmission line right of way to be contained within GVEC Substation, as needed.

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## Amendment No. 10

