



Control Number: 35077



Item Number: 941

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PUBLIC UTILITY COMMISSION  
FILING CLERK  
**Amendment No. 8**

**INTERCONNECTION AGREEMENT**

**Between**

**LCRA Transmission Services Corporation**

**and**

**Rio Grande Electric Cooperative, Inc.**

**March 26, 2019**

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## **EIGHTH AMENDMENT TO INTERCONNECTION AGREEMENT**

This Eighth Amendment ("Amendment") is made and entered into this 26th day of March, 2019, between Rio Grande Electric Cooperative, Inc. ("RGEC") and LCRA Transmission Services Corporation ("LCRA TSC"), collectively referred to hereinafter as the Parties.

**WHEREAS**, LCRA TSC and RGEC entered into that certain Interconnection Agreement executed October 5, 2006, as amended by that certain Amendment No. 1, executed as of June 22, 2011, as amended by that certain Amendment No. 2, executed as of May 28, 2015, as amended by that certain Amendment No. 3, executed as of July 17, 2015, as amended by that certain Amendment No. 4, executed as of October 16, 2015, as amended by that certain Amendment No. 5, executed as of May 11, 2017, as amended by that certain Amendment No. 6, executed as of December 1, 2017, as amended by that certain Amendment No. 7, executed as of October 22, 2018 (collectively, as amended, the "Agreement"), and

**WHEREAS**, this amendment is necessary because LCRA TSC and RGEC wish to amend the facility schedule for Rosita Creek; and

**WHEREAS**, LCRA TSC will build the Hayter Ranch Substation and RGEC will install a distribution breaker.

**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 Eighth Amendment is hereby added to the Agreement in lieu thereof.
2. Facility Schedule No. 1 (including the diagrams attached thereto) is deleted in its entirety and facility schedule no. 1 attached to this Eighth Amendment is hereby added to the Agreement in lieu thereof.
3. Facility Schedule No. 1 (including the diagrams attached thereto) attached to this Eighth Amendment will become effective upon execution of this Eighth Amendment by the Parties.
4. Facility Schedule No. 5 (including the diagrams attached thereto) attached to this Eighth Amendment is hereby added to the Agreement.
5. Facility Schedule No. 5 (including the diagrams attached thereto) attached to this Eighth Amendment will become effective upon execution of this Eighth 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.

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

RIO GRANDE ELECTRIC  
COOPERATIVE, INC.

By: \_\_\_\_\_

Name: Roger Andrade

Title: CEO

Date: 3/26/2018

LCRA TRANSMISSION SERVICES  
CORPORATION

By: \_\_\_\_\_

Name: Sergio Garza, P.E.

Title: LCRA Vice President,  
Transmission Design and Protection

Date: 03/26/2019



**Exhibit A**  
**Amendment No. 8**

<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	Rosita Creek (1)	138 kV	Date of 8 <sup>th</sup> amendment
2	Blewett (6)	24.9 kV	5/11/2017
3	Pinto Creek (6)	24.9 kV	10/22/2018
4	Wingarten (6)	24.9 kV	10/22/2018
5	Hayter Ranch (1)	24.9 kV	Date of 8 <sup>th</sup> amendment
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## **FACILITY SCHEDULE NO. 1**

### **Amendment No. 8**

1. **Name:** Rosita Creek
2. **Facility Location:** RGEC's Rosita Creek Substation is located 4 miles east of Eagle Pass Texas on Highway US277 in Maverick County. Rosita Creek Substation is connected to the 138kV transmission line from Bevo Substation to Escondido Substation.
3. **Points of Interconnection:** There is one (1) Point of Interconnection in Rosita Creek Substation generally described as:
  - where the four-bolt pad on RGEC's switch 12664 connects to the four-bolt pad on LCRA TSC's 138kV bus.
4. **Transformation Services Provided by LCRA TSC:** No
5. **Metering Services Provided by LCRA TSC:** No
6. **Delivery Voltage:** 138 kV
7. **Metered Voltage and Location:** N/A
8. **One Line Diagram Attached:** Yes
9. **Description of Facilities Owned by Each Party:**

RGEC owns the following equipment (see attached one-line for details):

The Rosita Creek Substation including but not limited to the following items:

- One (1) high-side air-break switch 12664
- One (1) 138 kV mobile substation tap switch 12666
- One (1) 138 kV circuit switcher CS12665 with associated bypass switch 12667
- One (1) power transformer T1 with associated surge arresters
- One (1) voltage regulator REG1 with bypass and disconnect switches RC3, RC4 and RC5
- One (1) 12.5 kV mobile substation tap switch RC2
- All the distribution and metering facilities in the substation
- One (1) station service SS1 with fuse F1
- The control house and all facilities within, except those owned by LCRA TSC
- Substation property, ground grid, gravel, fencing and other appurtenances

LCRA TSC owns the following equipment (see attached one-line for details):

- Two (2) 138 kV A-frame dead end structures
- Two (2) wave traps with tuners WT1 and WT2
- Two (2) 138 kV surge arresters SA1 and SA2
- Two (2) coupling capacitor voltage transformers CCVT1 and CCVT2

- Two 138 kV circuit breakers 12660 and 12670 including jumpers, and foundations
- Seven (7) 138 kV switches 12659, 12661, 12663, 12669, 12671, 12673 and 12679
- The 138kV bus including structures, foundations and jumpers
- One (1) remote terminal unit (RTU) in the RGEC control house
- Two (2) circuit breaker protective relay package line panels
- One (1) annunciator panel
- One (1) carrier panel
- One (1) ACT subpanel
- One (1) AC panelboard
- Two (2) DC panelboards
- Batteries and Battery Charger
- One (1) telecom equipment including SubWAN and Firewall
- One (1) 138 kV bus differential and breaker failure panel

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

- LCRA TSC shall operate and control the facilities it owns.
- RGEC shall operate and control the distribution and metering facilities it owns.

**11. Maintenance Responsibilities of Each Party:**

- Each Party shall be fully responsible for the maintenance of the facilities it owns.

**12. Other Terms and Conditions:**

- RGEC and LCRA TSC are to share access to the substation by RGEC and LCRA TSC locks in the gate and in the control house doors.
- RGEC is responsible to report to ERCOT all annual load data requests.
- LCRA TSC will provide RGEC access to 125 VDC. Circuits must have over current protection devices (OCPD) sized according to NEC standards. Panel boards containing the OCPD may belong to either RGEC (if space is available) or LCRA TSC.
- RGEC will provide LCRA TSC access to 120 VAC power. Circuits must have OCPD sized according to NEC standards. Panel boards containing the OCPD may belong to either RGEC (if space is available) or LCRA TSC.
- RGEC will provide LCRA TSC with floor space (as available and as necessary) in its control house for the installation of LCRA TSC required panels and equipment.
- RGEC is responsible for providing the following transformer analog values for LCRA SCADA : 3 Phase Megawatts, 3 Phase Megavars, and single phase Amps.
- RGEC will supply and allow LCRA TSC use of transformer T1 relaying bushing current transformers for its 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 RGEC'S circuit switcher CS12665 relaying panel.
- RGEC will provide breaker failure initiate contacts from its circuit switcher CS12665 relaying panel to LCRA TSC's 138 kV bus differential & breaker failure relaying panel.
- LCRA TSC and RGEC shall design, provide, and coordinate their respective

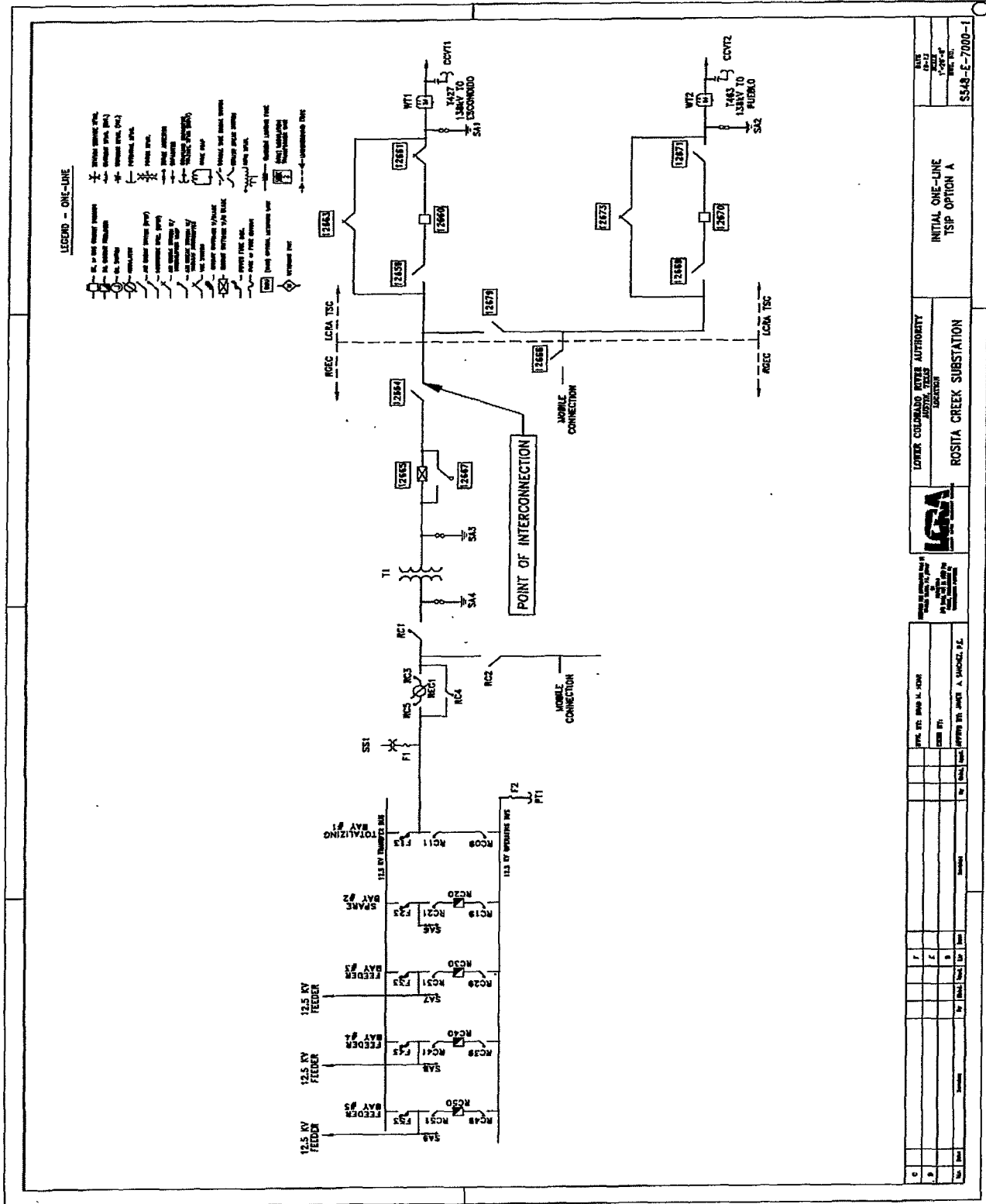


protection system equipment so that adjacent zones of protection overlap, in accordance with ERCOT Nodal Operating Guides.

- RGEC grants to LCRA TSC a revocable license to erect and maintain necessary supporting transmission structures on RGEC's right-of-way as shown in the descriptions and drawings attached as part of this Facility Schedule No. 1. RGEC agrees that this license shall be a condition of providing transmission service at this interconnect point.

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## Amendment No. 8



## **FACILITY SCHEDULE NO. 5**

### **Amendment No. 8**

1. **Name:** Hayter Ranch Substation
2. **Facility Location:** LCRA TSC's Hayter Ranch Substation is located approximately 30 miles West of Fort Stockton, Texas and 10 miles South of Interstate 10. The physical address TBD, Texas, in Pecos County. Hayter Ranch Substation is connected to the 138 kV transmission line from AEP's Alamito Creek to AEP's Solstice substations.
3. **Point of Interconnection:** There is one (1) Point of Interconnection in Hayter Ranch Substation generally described as:
  - where the incoming distribution line connects to the strain bus from the transformer disconnection switch HR5 at breaker HR10.
4. **Transformation Services Provided by LCRA TSC:** Yes, per Transformation Service Agreement between the Parties.
5. **Metering Services Provided by LCRA TSC:** Yes, per Wholesale Metering Service Agreement between the Parties.
6. **Delivery Voltage:** 24.9 kV
7. **Metered Voltage and Location:** The metered voltage is 24.9 kV utilizing metering current transformers inside the transformer and metering potential transformers located on the 24.9 kV transformer structure.
8. **One Line Diagram Attached:** Yes
9. **Description of Facilities Owned by Each Party:**

RGEC owns the following equipment (see attached one-line for details);

  - All 24.9 kV distribution circuit breakers including jumpers, protective relay packages and foundations.
  - All 24.9 kV distribution circuits with associated 24.9 kV surge arresters

LCRA TSC owns the following equipment (see attached one-line for details);

The Hayter Ranch Substation, including but not limited to, the following items:

  - One (1) 138 kV disconnect switch (33701)
  - One (1) 138 kV circuit breaker (33700)
  - One (1) power transformer T1 with associated surge arresters, foundation and protective relay package
  - One (1) 24.9 kV transformer bus disconnect switch (HR5)
  - All distribution and total bays including A-frames, trusses, insulators, disconnect switches, bus tie switches, bus potential transformers, 24.9 kV operating and transfer bus and associated cabling
  - One (1) meter panel with meters

- One (1) station service SS1 with associated fuse F1
- One (1) control house (8' X 12'), battery bank and battery charger and other appurtenances
- Substation ground grid, gravel, fencing and other appurtenances

**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:**

- LCRA TSC and RGEC are to share access to the substation by LCRA TSC and RGEC locks in the gate and in the control house doors.
- LCRA TSC will provide RGEC access to 125 VDC and 120 VAC power. Circuits must have over current protection devices (OCPD) sized according to NEC standards.
- LCRA TSC will provide RGEC with floor space (as necessary) in its control house for the installation of RGEC required relay panel boards and equipment.
- Hayter Ranch Substation access and physical security will be in accordance with LCRA TSC standards.

**13. Cost Responsibility:**

- Rio Grande Electric Cooperative, Inc. (RGEC) shall provide written notification, in accordance with Article XI of the Agreement, to LCRA TSC when RGEC begins serving load from the Hayter Ranch Substation.
- LCRA TSC has the right to remove its transmission and/or transformation facilities and cancel its project for these facilities at the Hayter Ranch Substation if it does not receive written notification as stated above or if RGEC does not actually serve load from the Hayter Ranch Substation by September 30, 2019.
- If LCRA TSC does remove its facilities or decides to cancel its project for these facilities for the reasons stated above, then RGEC shall reimburse LCRA TSC, within 30 days of invoicing, for the reasonable and documented project costs incurred, including but not limited to, designing, procuring, installing, and removing LCRA TSC transmission and/or transformation facilities for the Hayter Ranch Substation. The provisions of this Section shall survive termination of the Agreement and/or this Facility Schedule.
- If RGEC is serving load from this substation by September 30, 2019 and has notified LCRA TSC accordingly, then RGEC and LCRA TSC will each be individually responsible for all costs it incurs in connection with the establishment of this Point of Interconnection in accordance with this Facility Schedule.

## HAYTER RANCH ONE-LINE DIAGRAM

