



Control Number: 35077



Item Number: 685

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Project No. 35077

Amendment No. 5

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INTERCONNECTION AGREEMENT

Between

LCRA Transmission Services Corporation

and

City of Seguin

October 25, 2016

685 1

**FIFTH AMENDMENT TO
INTERCONNECTION AGREEMENT**

This Fifth Amendment ("Amendment") is made and entered into this 25th day of October, 2016, between the City of Seguin ("City") and the LCRA Transmission Services Corporation ("LCRA TSC") collectively referred to hereinafter as the Parties.

WHEREAS, the LCRA TSC and the City entered into that certain Interconnection Agreement executed October 17, 2008, as amended by that certain Amendment No. 1, executed as of January 6, 2010, as amended by that certain Amendment No. 2, executed as of September 14, 2011, as amended by that certain Amendment No. 3, executed as of May 24, 2012, and as amended by that certain Amendment No. 4, executed as of December 4, 2012;

WHEREAS, the LCRA TSC will upgrade and reconfigure two circuit switchers at Seguin Substation for higher fault current interrupting capacity; and,

WHEREAS, LCRA TSC will install additional distribution bays at Seguin West Substation to accommodate the City's additional distribution feeders to City loads.

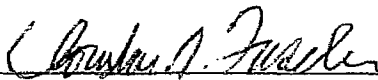
NOW, THEREFORE, in consideration of the mutual promises and undertakings herein set forth, the Parties agree to amend the Agreement as follows:

1. Exhibit "A" attached to the Agreement is deleted in its entirety and the Exhibit "A" attached to this Fifth Amendment is hereby added to the Agreement in lieu thereof.
2. Facility Schedule No. 2 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 2 attached to this Fifth Amendment is hereby added to the Agreement in lieu thereof.
3. Facility Schedule No. 2 (including the diagrams attached thereto) attached to this Fifth Amendment will become effective upon execution of this Fifth Amendment by the Parties.
4. Facility Schedule No. 3 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 3 attached to this Fifth Amendment is hereby added to the Agreement in lieu thereof.
5. Facility Schedule No. 3 (including the diagrams attached thereto) attached to this Fifth Amendment will become effective upon execution of this Fifth 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 Fifth Amendment to be executed in several counterparts, each of which shall be deemed an original but all shall constitute one and the same instrument.

CITY OF SEGUIN

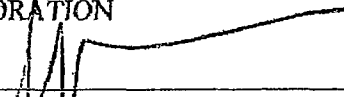
By: 

Name: Douglas Faseler

Title: City Manager

Date: 10-25-16

LCRA TRANSMISSION SERVICES
CORPORATION

By: 

Name: Sergio Garza, P.E.

Title: LCRA Vice President, Transmission
Design and Protection

Date: OCT. 21, 2016



EXHIBIT A
Fifth Amendment

[illegible]

FACILITY SCHEDULE NO. 2
Fifth Amendment

1. **Name:** Seguin Substation
2. **Facility Location:** The Seguin Substation is located at 806 E. Martindale Drive, Seguin, Guadalupe County, Texas 78155.
3. **Points of Interconnection:** There are twenty one (21) Points of Interconnection in the Seguin Substation generally described as:
 - where the incoming distribution line connects to the tubular bus between switches SE18 and SE19 at breaker SE20.
 - where the jumper from breaker SE20 connects to the 4 hole pad on switch SE19.
 - where the jumper from breaker SE20 connects to the 4 hole pad on switch SE21.
 - where the incoming distribution line connects to the tubular bus between switches SE28 and SE29 at breaker SE30.
 - where the jumper from breaker SE30 connects to the 4 hole pad on switch SE29.
 - where the jumper from breaker SE30 connects to the 4 hole pad on switch SE31.
 - where the incoming distribution line connects to the tubular bus between switches SE38 and SE39 at breaker SE40.
 - where the jumper from breaker SE40 connects to the 4 hole pad on switch SE39.
 - where the jumper from breaker SE40 connects to the 4 hole pad on switch SE41.
 - where the jumper from the terminal pad between switches SE81 and SE82 attaches to the incoming distribution line at breaker SE80.
 - where the jumper from breaker SE80 connects to the 4 hole pad on switch SE79.
 - where the jumper from breaker SE80 connects to the 4 hole pad on switch SE81.
 - where the jumper from the terminal pad between switches SE91 and SE92 attaches to the incoming distribution line at breaker SE90.
 - where the jumper from breaker SE90 connects to the 4 hole pad on switch SE89.
 - where the jumper from breaker SE90 connects to the 4 hole pad on switch SE91.
 - where the jumper from the terminal pad between switches SE101 and SE102 attaches to the incoming distribution line at breaker SE100.
 - where the jumper from breaker SE100 connects to the 4 hole pad on switch SE99.
 - where the jumper from breaker SE100 connects to the 4 hole pad on switch SE101.
 - where the jumper from the terminal pad between switches SE121 and SE122 attaches to the incoming distribution line at breaker SE120.
 - where the jumper from breaker SE120 connects to the 4 hole pad on switch SE119.
 - where the jumper from breaker SE120 connects to the 4 hole pad on switch SE121.
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:** 12.5 kV
7. **Metered Voltage and Location:** The metered voltage is 12.5 kV. The metering current transformer for T5, CT4 is located in the total bay. The metering current transformer for T4 is located in T4. The metering potential transformers are located on the respective 12.5 kV operating buses.
8. **One Line Diagram Attached:** Yes
9. **Description of Facilities Owned by Each Party:**

City of Seguin owns:

- Seven (7) 15 kV distribution circuit breakers SE20, SE30, SE40, SE80, SE90, SE100, and SE120, with foundations and protective relaying
- Seven (7) distribution circuits with surge arresters

LCRA TSC owns:

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

- 138 kV operating and transfer bus
- One (1) 138 kV bus differential and breaker failure relaying scheme
- One (1) 138 kV dual core relaying current transformer CT19
- Two (2) power transformers T4 and T5 with associated surge arresters and protective relaying
- One (1) single phase current transformer CT18
- Two (2) circuit switchers CS27615 and CS27625 with bypass switches 27617 and 27627
- Four(4) 138 kV switches 3164, 27613, 3538 and 27623
- Two (2) total circuit breakers SE10 and SE70
- One (1) metering current transformer CT4
- Ten (10) distribution and total bays including A-frames, trusses, insulators, 12.5 kV operating and transfer bus, disconnect switches and bus potential transformers
- Four (4) distribution bays including vertical box structure (Structure #2), insulators, 12.5 kV operating and transfer bus and disconnect switches and jumpers to distribution lines
- Underfrequency relay panel
- Four (4) station service equipment SS3, SS4, SS5 and SS6 with fused disconnects F6, F7 and F8
- One (1) control house (24' x 36') with battery
- One (1) portable building (12' x 21')
- Substation property, ground grid, gravel, fencing and other appurtenances

10. Operational Responsibilities of Each Party:

- The City will be responsible for the operation of the seven (7) distribution circuit breakers serving the City feeders.
- LCRA TSC will be responsible for the operation from the low voltage bus total breakers through the two (2) power transformers to the high voltage equipment.

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

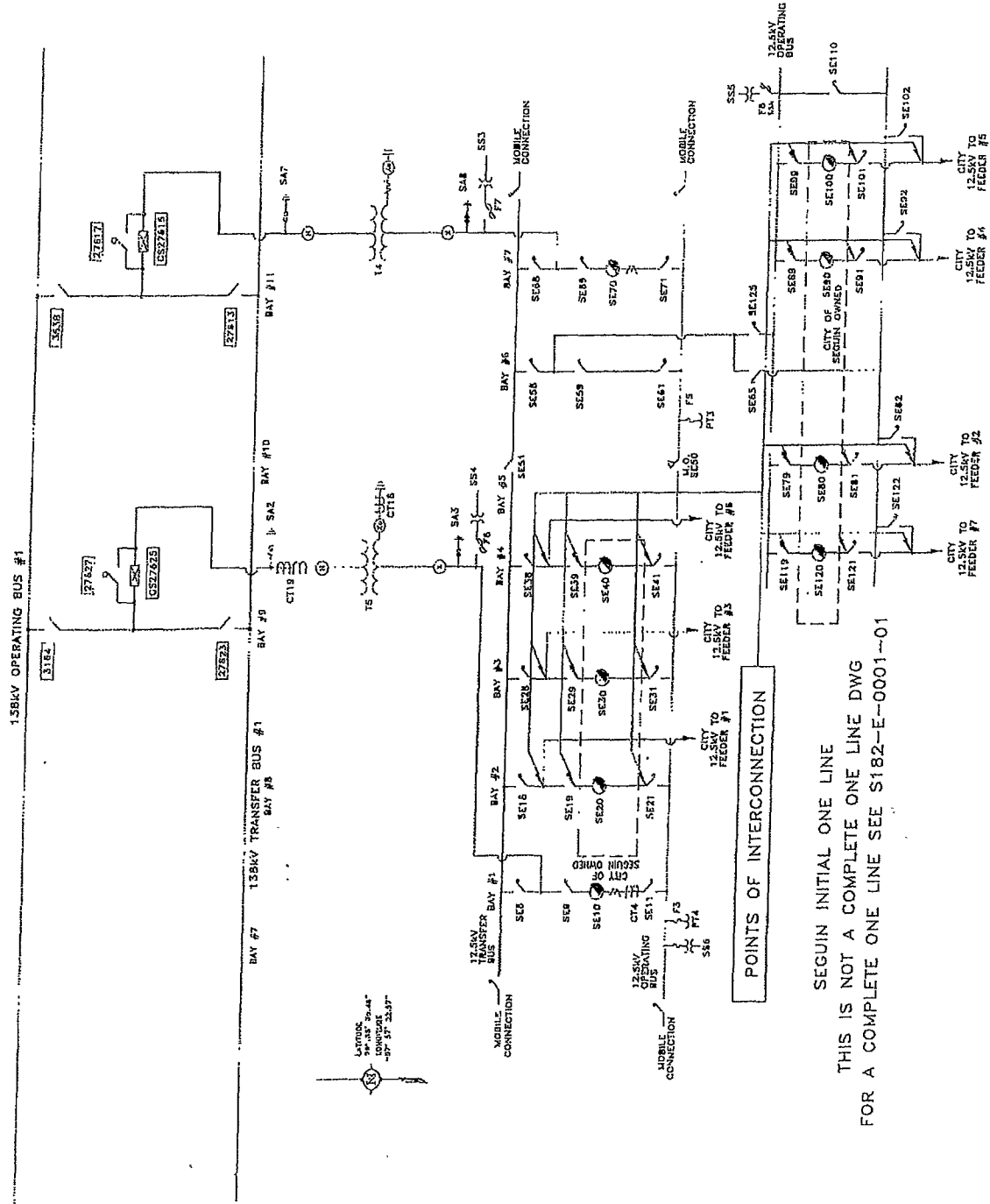
12. Other Terms and Conditions:

- 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 is permitted to install, operate and maintain, a Strix model 82-2195 antenna and associated electronics at approximately 75 foot elevation on the existing LCRA TSC communications tower, operating at a transmit frequency of 5.725 Mhz and a receive frequency of 5.85 Mhz under the following conditions:
 - a) The City installation is reviewed and approved by LCRA TSC prior to installation.
 - b) The City installation does not interfere with LCRA TSC operations.
 - c) The City installation is for the sole purpose of electric utility operations associated with the substation and the City's distribution equipment.
 - d) If LCRA TSC in the future needs the communication tower space (at the sole discretion of LCRA TSC), then the City will relocate their facilities upon written notice from LCRA TSC.

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SEGUIN ONE-LINE DIAGRAM

Fifth Amendment



FACILITY SCHEDULE NO. 3
Fifth Amendment

1. **Name:** Seguin West Substation
2. **Facility Location:** The Seguin West Substation is located at 1405 New Braunfels St., Seguin, Guadalupe County, Texas 78155.
3. **Points of Interconnection:** There are eighteen (18) Points of Interconnection in the Seguin West Substation generally described as:
 - where the incoming distribution line connects to the tubular bus between switches SW11 and SW13 at breaker SW10.
 - where the jumper from breaker SW10 connects to the 4 hole pad on switch SW9.
 - where the jumper from breaker SW10 connects to the 4 hole pad on switch SW11.
 - where the incoming distribution line connects to the tubular bus between switches SW21 and SW23 at breaker SW20.
 - where the jumper from breaker SW20 connects to the 4 hole pad on switch SW19.
 - where the jumper from breaker SW20 connects to the 4 hole pad on switch SW21.
 - where the incoming distribution line connects to the tubular bus between switches SW31 and SW33 at breaker SW30.
 - where the jumper from breaker SW30 connects to the 4 hole pad on switch SW29.
 - where the jumper from breaker SW30 connects to the 4 hole pad on switch SW31.
 - where the incoming distribution line connects to the tubular bus between switches SW111 and SW113 at breaker SW110.
 - where the jumper from breaker SW110 connects to the 4 hole pad on switch SW99.
 - where the jumper from breaker SW110 connects to the 4 hole pad on switch SW111.
 - where the incoming distribution line connects to the tubular bus between switches SW121 and SW123 at breaker SW120.
 - where the jumper from breaker SW120 connects to the 4 hole pad on switch SW119.
 - where the jumper from breaker SW120 connects to the 4 hole pad on switch SW121.
 - where the incoming distribution line connects to the tubular bus between switches SW151 and SW153 at breaker SW150.
 - where the jumper from breaker SW150 connects to the 4 hole pad on switch SW149.
 - where the jumper from breaker SW150 connects to the 4 hole pad on switch SW151.
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:** 12.5 kV
7. **Metered Voltage and Location:** The metered voltage is 12.5 kV. The metering current transformers are located in T1. The metering potential transformer is located on the 12.5 kV operating bus.
8. **One Line Diagram Attached:** Yes
9. **Description of Facilities Owned by Each Party:**

City of Seguin owns:

 - Six (6) distribution circuit breakers SW10, SW20, SW30, SW110, SW120 and SW150 with foundations, jumpers and protective relaying
 - Eighteen (18) riser pole distribution surge arresters at the feeder exits (6 x 3 phases)
 - Three (3) steel stands for underground feeder exits
 - One (1) TWACS MTU1 and fuse F8

LCRA TSC owns:

The Seguin West Substation including, but not limited to, the following items:

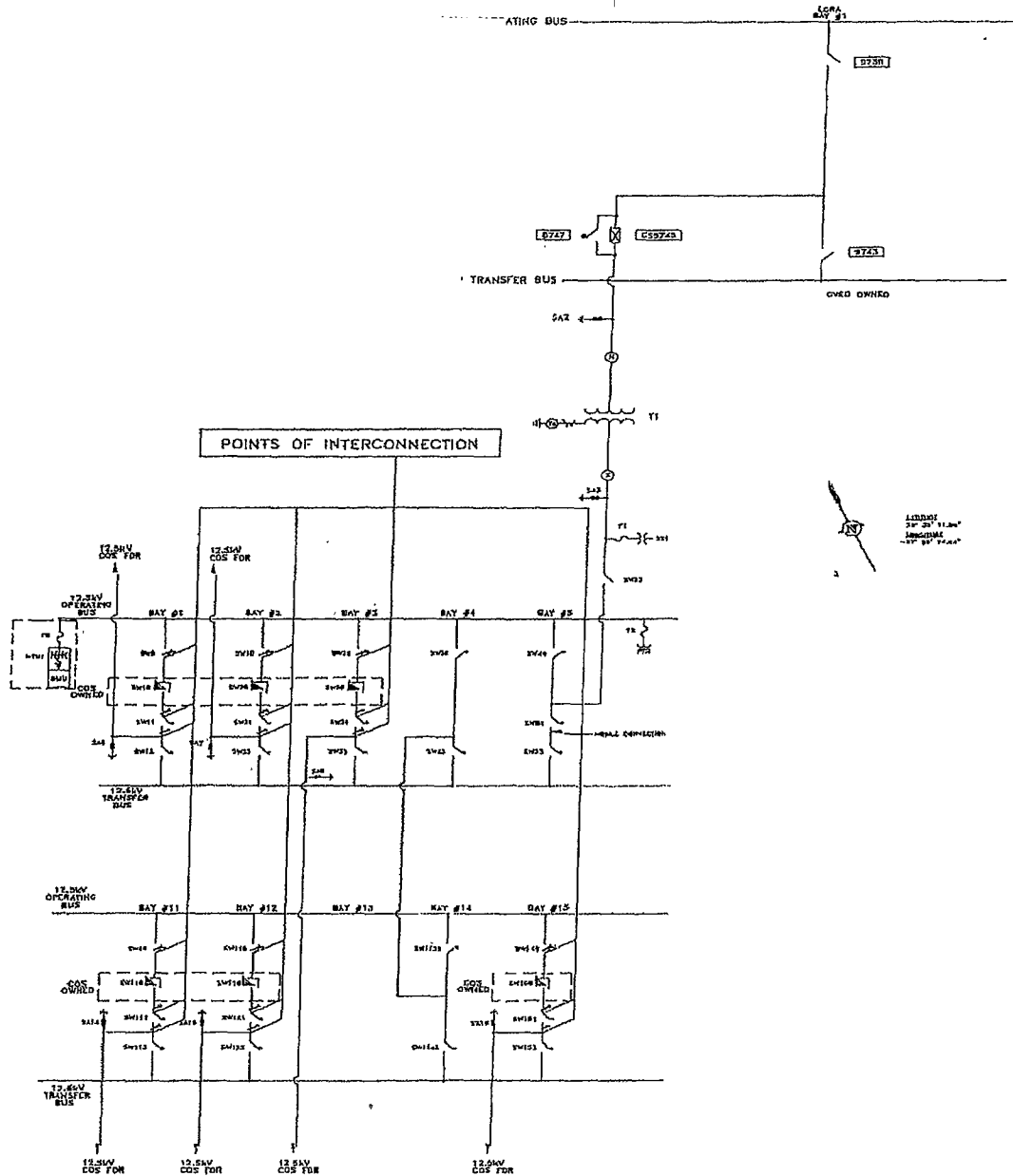
 - Two (2) 138 kV switches 9739 and 9743
 - 138 kV Operating and Transfer bus with foundations and supports
 - One (1) circuit switcher CS9745 with foundation, jumpers and protective relaying
 - One (1) power transformer T1 with associated surge arresters and protective relaying
 - Ten (10) distribution and total bays including A-frames, trusses, insulators, disconnect switches, 12.5 kV operating and transfer bus, mobile transformer connection and bus potential transformers
 - Underfrequency relay panel
 - One (1) station service SS1
 - One (1) control house (24' x 39') with battery
 - Substation property, ground grid, gravel, fencing and other appurtenances
10. **Operational Responsibilities of Each Party:**
 - The City will be responsible for the operation of the six (6) distribution circuit breakers serving the City feeders.
 - LCRA TSC will be responsible for the operation from the 12.5 kV bus through the power transformer to the high voltage equipment.
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 is permitted to install, operate and maintain, a Strix model 82-2195 antenna and associated electronics at approximately 45 foot elevation on the existing LCRA TSC pole at the Southeast corner of the control house, operating at a transmit frequency of 5.725 Mhz and a receive frequency of 5.85 Mhz under the following conditions:
 - a) The City installation is reviewed and approved by LCRA TSC prior to installation.
 - b) The City installation does not interfere with LCRA TSC operations.
 - c) The City installation is for the sole purpose of electric utility operations associated with the substation and the City's distribution equipment.
 - d) If LCRA TSC in the future needs the communication pole space (at the sole discretion of LCRA TSC), then the City will relocate their facilities upon written notice from LCRA TSC.

SEGUIN WEST ONE-LINE DIAGRAM

Fifth Amendment



SEGUIN WEST INITIAL ONE LINE
THIS IS NOT A COMPLETE ONE LINE DWG
FOR A COMPLETE ONE LINE SEE S429-E-0001-01