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**Project No. 35077**

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**Amendment No. 18 to**

**INTERCONNECTION AGREEMENT**

**Between**

**Oncor Electric Delivery Company, LLC**

**and**

**LCRA Transmission Services Corporation**

**Dated**

**October 18, 2016**

684

**AMENDMENT TO  
INTERCONNECTION AGREEMENT**

This Amendment No. 18 ("Amendment") is made and entered into this 18<sup>TH</sup> day of OCTOBER, 2016, between Oncor Electric Delivery Company LLC ("Oncor"), and the LCRA Transmission Services Corporation ("LCRA TSC"), hereinafter individually referred to as "Party" and collectively referred to as "Parties".

**WHEREAS**, LCRA TSC and Oncor entered into that certain Interconnection Agreement executed October 17, 1997, as amended (the "Agreement"); and

**WHEREAS**, LCRA TSC will rebuild the Arco Tap as a 3 breaker ring bus station,

**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 Exhibit A attached to this Amendment is hereby added to the Agreement.
2. Exhibit A attached to this Amendment will become effective upon execution of this Amendment by the Parties.
3. Facility Schedule No. 14 attached to the Agreement is hereby deleted in its entirety and Facility Schedule No. 14 attached to this Amendment is hereby added to the Agreement.
4. Facility Schedule No. 14 attached to this Amendment will become effective upon execution of this 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 Amendment to be executed in several counterparts, each of which shall be deemed an original but all shall constitute one and the same instrument.

ONCOR ELECTRIC DELIVERY COMPANY  
LLC

By: Terry Preuninger

Name: Terry Preuninger

Title: Sr. Director – Transmission Services

Date: 10/18/2016

LCRA TRANSMISSION SERVICES  
CORPORATION

By: SERGIO GARZA

Name: Sergio Garza, P.E.

Title: LCRA Vice President, Transmission  
Design and Protection

Date: OCT. 12, 2016



# EXHIBIT A

## LIST OF FACILITY SCHEDULES AND POINTS OF INTERCONNECTION

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (kV)	EFFECTIVE DATE OR SUBSEQUENT AMENDMENT IN THE INTERCONNECTION AGREEMENT*
1	Round Rock-Chief Brady (1)	138	October 17, 1997
2	Round Rock-Wells Branch (2)	138	October 29, 2012
3	Copperas Cove Substation (1)	138	October 27, 2000
4	Elgin Substation (1)	138	November 19, 1999
5	Round Rock South-Wells Branch (1)	138	October 29, 2012
6	Camp Bowie Substation (1)	138	October 27, 2000
7	Gilleland Creek Substation (2)	138	October 29, 2012
8	Mitchell-Sterling County (1)	345	April 28, 2008
9	Brown Switching Station (2)	345	December 17, 2015
10	Spraberry (1)	138	March 3, 2016
11	Midkiff (2)	138	Nov 22, 2013
12	Upton (1)	138	March 3, 2016
13	Crane (1)	138	October 5, 2004
14	Arco Substation (1)	138	October 18, 2016
15	Odessa EHV (1)	138	October 5, 2004
16	Bitter Creek Substation (2)	345	October 31, 2003
17	Brownwood-Firerock (1)	138	October 29, 2012
18	South Abilene-Eskota (1)	138	October 5, 2004
19	Crane East Substation (2)	138	October 27, 2006
20	Hutto Switching Station (2)	345	October 29, 2012
21	Gabriel Substation (2)	138	October 29, 2012
22	Pleasant Farms Substation (1)	138	7/22/2015
23	Benedum Substation (2)	138	March 3, 2016
24	Georgetown East Substation (2)	138	March 3, 2016
25	Georgetown South Substation (2)	138	7/22/2015

## FACILITY SCHEDULE NO. 14

1. **Name:** Arco Substation
2. **Facility Location:** LCRA TSC's Arco Substation ("LCRA TSC's Substation") will be located in Crane County at Latitude: 31°28'26.90"N and Longitude: 102°19'27.10"W, approximately 4.5 miles north of LCRA TSC's Crane Substation between structure #26/8 and #26/10 in LCRA TSC's Pleasant Farms Substation – LCRA TSC's Crane Substation 138 kV transmission line ("LCRA TSC's Transmission Line").
3. **Points of Interconnection:** The Point of Interconnection will be located in LCRA TSC's Substation at LCRA TSC's dead-end structure where LCRA TSC's jumpers connect to Oncor's approximately 8.5 mile radial 138 kV transmission line ("Oncor's Transmission Line").
4. **Transformation Services Provided:** No
5. **Metering Services Provided:** 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:**

**Facilities owned by LCRA TSC:**

LCRA TSC's Transmission Line and LCRA TSC's Substation facilities, including, but not limited to the following:

- a) Three (3) dead-end structures with associated foundations, insulators and jumpers to terminate LCRA TSC's Transmission Line and Oncor's Transmission Line
- b) Jumpers from LCRA TSC's conductors to the Point of Interconnection
- c) 138 kV ring bus, bus supports, and associated 138 kV switches, foundations and insulators
- d) Three (3) 138 kV circuit breakers and associated foundations, jumpers and protective relaying packages
- e) Three (3) 138 kV surge arresters
- f) Three (3) 138 kV coupling capacitor voltage transformers (3 x 3 phases)
- g) Two (2) 138 kV wave traps with associated tuners
- h) One (1) power potential transformer
- i) Supervisory equipment, SCADA RTU, complete with SubWAN and firewall
- j) One (1) PLC/DTT Panel
- k) One (1) Annunciator Panel
- l) One (1) SIP Panel
- m) One (1) 90' telecom pole and associated radio equipment

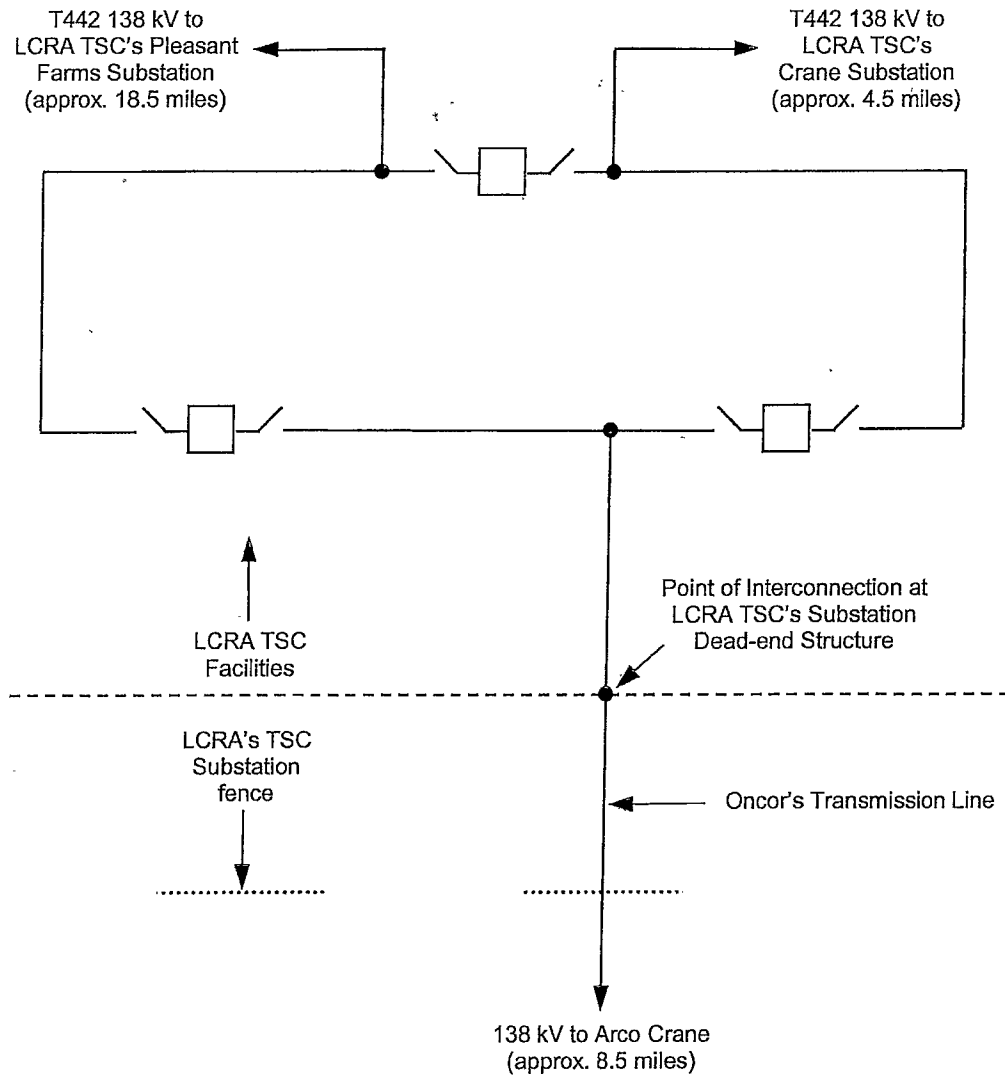
- n) One (1) control house with batteries, battery charger and other appurtenances
- o) Substation ground grid, gravel, conduit, cable, fencing and other appurtenances
- p) Easement for LCRA TSC's Substation on property owned by the University of Texas

**Facilities owned by Oncor:**

Oncor's Transmission Line, including insulators and termination hardware to terminate Oncor's Transmission Line on LCRA TSC's dead-end structure in LCRA TSC's Substation

- 10. **Operational Responsibilities of Each Party:** Each Party will be responsible for the operation of the facilities it owns.
- 11. **Maintenance Responsibilities of Each Party:** Each Party will be responsible for the maintenance of the facilities it owns.
- 12. **Other Terms and Conditions:**
  - a) LCRA TSC will rebuild the Arco Tap Point of Interconnection. In its current configuration, the Arco Tap Point of Interconnection is located in LCRA TSC's Transmission Line at LCRA TSC's structure #26/9 between LCRA TSC's in-line switches #3594 and #3596. After the rebuild is completed, the Arco Substation Point of Interconnection will be provided by the LCRA TSC from a three-breaker ring bus station consisting of the LCRA TSC facilities specified in Section 9 above and shown in the attached one line diagram.
  - b) Oncor and LCRA TSC will each be responsible for all costs it incurs in connection with constructing, operating, and maintaining its facilities in accordance with this Facility Schedule; provided, however, that this Paragraph 12(b) is subject to any other provisions of this Agreement with respect to liability and indemnification, and this Paragraph 12(b) shall not relieve either Party of its respective obligations under those provisions.
  - c) The LCRA TSC will telemeter power flows, device status, and bus voltage from LCRA TSC's Substation to LCRA TSC's Control Center.
  - d) The LCRA TSC will provide data to ERCOT in accordance with ERCOT requirements.
  - e) The LCRA TSC shall design and coordinate its protection system equipment in accordance with ERCOT requirements.
  - f) Each Party will conduct its activities associated with the Point of Interconnection in accordance with applicable laws, regulations, tariffs, and all binding documents developed by the Electric Reliability Council of Texas and the North American Electric Reliability Corporation ("Binding Documents"). To the extent that any provision of the Agreement, including the provisions of this Facility Schedule, is in conflict with any mandatory provision of the Binding Documents, such mandatory provision will prevail. Notwithstanding any provision of the Agreement to the contrary, to the extent any provision of the Agreement is in conflict with a provision of this Facility Schedule, such provision of this Facility Schedule will prevail.

**ONE-LINE DIAGRAM  
LCRA TSC'S ARCO SUBSTATION**



Note: This one-line diagram is for illustration only and shall not be used for purposes of design, construction or operations