



Control Number: 35077



Item Number: 625

Addendum StartPage: 0

PUC Project No. 35077

RECEIVED

2016 JAN -8 PM 2:30

PUBLIC UTILITY COMMISSION
FILING CLERK

Amendment to the
INTERCONNECTION AGREEMENT
Between
LCRA Transmission Services Corporation
and
Oncor Electric Delivery Company, LLC

Dated
December 17, 2015

625 1

**AMENDMENT TO
INTERCONNECTION AGREEMENT**

This Amendment No. 16 ("Amendment") is made and entered into this 17TH day of ~~DECEMBER~~, 2015, 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, the LCRA TSC and Oncor entered into that certain Interconnection Agreement executed October 17, 1997, as amended (the "Agreement"); and

WHEREAS, the Brown Switching Station Point of Interconnection found in Facility Schedule No. 9 of the Agreement describes, among other things, LCRA TSC's 345 kV circuit ("Red Creek Line") between Oncor's Brown Switching Station and the American Electric Power Company ("AEP") Red Creek Switching Station; and

WHEREAS, on October 14, 2015 Rattlesnake Power, LLC ("Generator"), under ERCOT generation interconnection request number 16INR0087, entered into that certain ERCOT Standard Generation Interconnection Agreement with LCRA TSC to connect the RTS Wind Power Project to the ERCOT transmission grid through first a temporary 3-way tap of the Red Creek Line and ultimately into the new LCRA TSC Bow Wood Substation which will replace the 3-way tap; and

WHEREAS, for the temporary 3-way tap configuration it will be necessary for Oncor to add equipment and modify its protective relaying schemes at the Brown Switching Station to send/receive a transfer trip signal to/from the Generator terminal and then ultimately modify its protective relaying scheme again as LCRA TSC completes its new Bow Wood Substation; and

WHEREAS, the Parties discussed during the study period for generation interconnection request 16INR0087 that LCRA TSC would provide Oncor with a contribution in aid of construction for Oncor's temporary additions and modifications to Oncor's protective relaying schemes at Brown Switching Station due to the temporary 3-way tap configuration and security for Oncor's permanent modifications due to this generation interconnection;

WHEREAS, on October 14, 2015, LCRA TSC and Generator entered into an ERCOT Standard Generation Interconnection Agreement whereby Generator will coordinate its transmission line relaying directly with LCRA TSC and LCRA TSC will have control over Generator's line protection and will coordinate with both AEP and Oncor during the temporary 3-way tap configuration;

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 in lieu thereof.

2. Exhibit A attached to this Amendment will become effective upon execution of this Amendment by the Parties.
3. Facility Schedule No. 9 attached to the Agreement is deleted in its entirety and Facility Schedule No. 9 attached to this Amendment is hereby added to the Agreement in lieu thereof.
4. Facility Schedule No. 9 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: *Jerry Preuninger*

Name: JERRY PREUNINGER

Title: SR DIRECTOR

Date: 12/17/2015

LCRA TRANSMISSION SERVICES
CORPORATION

By: *Ray Pfefferkorn*

Name: Ray Pfefferkorn, P.E.

Title: LCRA Transmission Engineering
Manager

Date: 11/30/15



EXHIBIT A

LIST OF FACILITY SCHEDULES AND POINTS OF INTERCONNECTION

<u>Facility Schedule No.</u>	<u>Name of Point of Interconnection</u>
1	ROUND ROCK-CHIEF BRADY
2	ROUND ROCK-MCNEIL
3	COPPERAS COVE SUBSTATION
4	ELGIN SUBSTATION
5	HOWARD LANE - ROUND ROCK SOUTH
6	CAMP BOWIE SUBSTATION
7	GILLELAND SUBSTATION
8	MITCHELL-STERLING COUNTY
9	BROWN SWITCHING STATION
10	SPRABERRY
11	MIDKIFF
12	UPTON
13	CRANE
14	ARCO TAP
15	ODESSA EHV
16	BITTER CREEK
17	SANTA ANNA - BROWNWOOD
18	SOUTH ABILENE-ESKOTA
19	CRANE EAST SUBSTATION
20	HUTTO SWITCHING STATION
21	GABRIEL SUBSTATION
22	PLEASANT FARMS SUBSTATION

FACILITY SCHEDULE NO. 9

1. **Name:** Brown Switching Station Point of Interconnection ("Point of Interconnection")
2. **Facility Location:** The Point of Interconnection is located in Brown County, Texas near the county line between Coleman and Brown counties. The Point of Interconnection is located outside the west fence at the Oncor Brown Switching Station. The Oncor Brown Switching Station is located at 12416 CR 222, Brookesmith, Texas 76827.
3. **Point of Interconnection location:** The Point of Interconnection consists of two (2) line to line interconnections and shall be defined as the points at LCRA TSC's 345 kV transmission structure #328 where:
 - (a) the LCRA TSC jumpers from the LCRA TSC 345 kV transmission circuit which extends from the AEP Red Creek Switching Station to the LCRA TSC temporary 3-way tap and from the temporary 3-way tap to the Generator's line connecting the RTS Wind Power Project and from the temporary 3-way tap to the LCRA TSC structure #328 connection to the Oncor 345 kV transmission circuit which extends approximately 350' from the Oncor Brown Switching Station deadend structure to the LCRA TSC transmission structure #328 (ultimately this temporary 3-way tap will be replaced with the LCRA TSC Bow Wood Substation such that this 345 kV transmission circuit from Brown Switching Station will connect to the Bow Wood Substation); and
 - (b) the LCRA TSC jumpers from the LCRA TSC 345 kV transmission circuit which extends from the LCRA TSC Twin Buttes Switching Station to the LCRA TSC structure #328 connection to the Oncor 345 kV transmission circuit which extends approximately 350' from the Oncor Brown Switching Station deadend structure to the LCRA TSC structure #328 (See attached One Line Diagram)
4. **Transformation Services Provided:** No
5. **Metering Services Provided:** No
6. **Delivery voltage:** 345kV
7. **Metered Voltage and Location:** N/A
8. **One line diagram attached:** Yes
9. **Description of Facilities Owned by Each Party:**

Facilities owned by Oncor:

 - (a) Two (2) 345 kV deadend structures located in the Oncor Brown Switching Station
 - (b) Approximately 350 feet of double-circuit 345 kV transmission line from the Oncor Brown Switching Station deadend structures to the LCRA TSC structure #328 and associated insulator strings and attachment hardware

- (c) Four (4) 345 kV breakers #10835 and #10840 (Twin Buttes line) and #10850 and #10855 (temporary 3-way tap/Generator/Red Creek line and ultimately the Bow Wood line) and associated facilities located in the Oncor Brown Switching Station 345 kV switchyard

Facilities owned by the LCRA TSC:

- (a) 345 kV transmission structure #328
- (b) One (1) 345 kV transmission circuit extending from the LCRA TSC Twin Buttes Switching Station to the LCRA TSC structure #328 and associated insulator strings and attachment hardware
- (c) One (1) 345 kV transmission circuit extending from the AEP Red Creek Switching Station to the LCRA TSC temporary 3-way tap and from the temporary 3-way tap to the Generator's line connecting the RTS Wind Power Project and from the temporary 3-way tap to the LCRA TSC structure #328 (ultimately this temporary 3-way tap will be replaced with the LCRA TSC Bow Wood Substation such that this 345 kV transmission circuit from LCRA TSC structure #328 will connect to the Bow Wood Substation) and associated insulator strings and attachment hardware
- (d) Jumpers at the LCRA TSC structure #328 to connect the LCRA TSC double-circuit 345 kV transmission line to the Oncor double-circuit 345 kV transmission line at the Point of Interconnection
- (e) Two (2) 345 kV breakers #22090 and #22100 and associated facilities located in the LCRA TSC Twin Buttes Switching Station
- (f) Ultimately two (2) 345 kV breakers #21710 and #21740 and associated facilities for the Oncor Brown Switching Station line located in the LCRA TSC Bow Wood Substation

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

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

12. **Other Terms and Conditions:**

- (a) Oncor will make power and energy flows, device status, and bus voltage at Brown Switching Station available to ERCOT such that the LCRA TSC control center can access the data from ERCOT and the LCRA TSC will make energy flows, device status, and bus voltage at Twin Buttes Switching Station, the 3-way temporary tap, and ultimately the Bow Wood Substation available to ERCOT such that the Oncor control center can access the data from ERCOT.
- (b) Oncor and the LCRA TSC will each be responsible for all costs it incurs in connection with constructing, operating, and maintaining its facilities at the Point of Interconnection, as further described in 12.(d) below, 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 agrees to design and construct the LCRA TSC interconnection facilities in accordance with the version of Oncor's facility connection requirements in effect at the time LCRA TSC begins the design of its facilities. Those facility connection requirements are as specified in Oncor's "500-252 Guideline - Facility Connection Requirements for Bi-Directional Points of Interconnection at Transmission Voltages with Electric Utilities".
- (d) Due to the generator interconnection on LCRA TSC's Red Creek Line, LCRA TSC shall provide Oncor with: (i) a contribution in aid of construction in the amount of \$91,012.58 for Oncor's temporary additions and modifications to Oncor's protective relaying schemes at Brown Switching Station due to the temporary 3-way tap configuration; and (ii) security in the amount of \$20,000.00 for Oncor's permanent modifications due to this generation interconnection. Oncor shall invoice LCRA TSC for the contribution in aid of construction prior to making the temporary additions and modifications to Oncor's protective relaying schemes at Brown Switching Station due to the temporary 3-way tap configuration. If the generator interconnection does not proceed to completion or if the LCRA TSC Bow Wood Substation is not energized by December 31, 2017 and Oncor has incurred expenses for the permanent modifications, then Oncor may invoice LCRA TSC for those expenses. The estimated amount of Oncor's expenses for the permanent modifications is \$20,000.00. LCRA TSC shall pay the invoices within 30 days of receipt of invoices.
- (e) The Parties agree to make the necessary modifications to their respective systems to interconnect the Generator by a November 21, 2016 in-service date for the transmission facilities required for the temporary 3-way tap interconnection. LCRA TSC shall coordinate the schedules for the temporary 3-way tap and the ultimate Bow Wood Substation interconnection with Oncor.

FACILITY SCHEDULE NO. 9
ONE LINE DIAGRAM
BROWN SWITCHING STATION POINT OF INTERCONNECTION

