



Control Number: 35077



Item Number: 333

Addendum StartPage: 0

Project No. 35077

Thirteenth Amendment to

INTERCONNECTION AGREEMENT

Between

**Oncor Electric Delivery Company LLC
and**

LCRA Transmission Services Corporation

**Dated
October 29, 2012**

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AMENDMENT TO INTERCONNECTION AGREEMENT

This Amendment No. 13 ("Amendment") is made and entered into this 29th day of ~~OCTOBER~~, 2012, 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 Lower Colorado River Authority and Texas Power and Light Company (predecessor to Oncor) entered into that certain Letter Agreement executed October 8, 1979, which amended that certain agreement dated October 14, 1949; and

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

WHEREAS, the Oncor Round Rock Substation – LCRA TSC McNeil Substation 138 kV transmission line now terminates at the LCRA TSC Wells Branch Substation instead of the LCRA TSC McNeil Substation; and

WHEREAS, the Oncor Round Rock South Substation – LCRA TSC Howard Lane Substation 138 kV transmission line now terminates at the LCRA TSC Wells Branch Substation instead of the LCRA TSC Howard Lane Substation; and

WHEREAS, the Oncor double-circuit LCRA TSC Gilleland Creek Substation to Oncor Hutto Switching Station 138 kV transmission line now terminates on separate 138 kV buses at the LCRA TSC Gilleland Creek Substation instead of on the same bus; and

WHEREAS, Skywest Substation is being installed in the LCRA TSC transmission line between Oncor's Spraberry and Midkiff Switching Stations; and

WHEREAS, the Oncor Brownwood Substation – American Electric Power (AEP) Santa Anna Substation 138 kV transmission line now terminates at the Electric Transmission Texas (ETT) Fireroak Substation instead of the AEP Santa Anna Substation; and

WHEREAS, the LCRA TSC Gilleland Creek Substation – Oncor Hutto Switching Station and the LCRA TSC Zorn Switching Station – Oncor Hutto Switching Station 345 kV transmission lines terminate just outside the Oncor Hutto Switching Station; and

WHEREAS, the LCRA TSC Gabriel Substation connects to the Oncor Hutto Switching Station via the LCRA TSC Gabriel Substation – Oncor Hutto Switching Station 138 kV transmission line and to the Oncor Salado Switching Station via the LCRA TSC Gabriel Substation – Salado 138 kV transmission line;

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. 2 attached to the Agreement is deleted in its entirety and Facility Schedule No. 2 attached to this Amendment is hereby added to the Agreement in lieu thereof.
4. Facility Schedule No. 2 attached to this Amendment will become effective upon execution of this Amendment by the Parties.
5. Facility Schedule No. 5 attached to the Agreement is deleted in its entirety and Facility Schedule No. 5 attached to this Amendment is hereby added to the Agreement in lieu thereof.
6. Facility Schedule No. 5 attached to this Amendment will become effective upon execution of this Amendment by the Parties.
7. Facility Schedule No. 7 attached to the Agreement is deleted in its entirety and Facility Schedule No. 7 attached to this Amendment is hereby added to the Agreement in lieu thereof.
8. Facility Schedule No. 7 attached to this Amendment will become effective upon execution of this Amendment by the Parties.
9. Facility Schedule No. 10 attached to the Agreement is deleted in its entirety and Facility Schedule No. 10 attached to this Amendment is hereby added to the Agreement in lieu thereof.
10. Facility Schedule No. 10 attached to this Amendment will become effective upon execution of this Amendment by the Parties.
11. Facility Schedule No. 11 attached to the Agreement is deleted in its entirety and Facility Schedule No. 11 attached to this Amendment is hereby added to the Agreement in lieu thereof.
12. Facility Schedule No. 11 attached to this Amendment will become effective upon execution of this Amendment by the Parties.
13. Facility Schedule No. 17 attached to the Agreement is deleted in its entirety and Facility Schedule No. 17 attached to this Amendment is hereby added to the Agreement in lieu thereof.
14. Facility Schedule No. 17 attached to this Amendment will become effective upon

execution of this Amendment by the Parties.

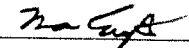
15. Facility Schedule No. 20 attached to this Amendment is hereby added to the Agreement.
16. Facility Schedule No. 20 attached to this Amendment will become effective upon execution of this Amendment by the Parties.
17. The Letter Agreement between the Lower Colorado River Authority and Texas Power and Light Company, dated October 8, 1979 is deleted in its entirety and Facility Schedule No. 21 attached to this Amendment is hereby added to the Agreement in lieu thereof.
18. Facility Schedule No. 21 attached to this Amendment will become effective upon execution of this Amendment by the Parties.

Except as otherwise expressly provided for herein, the Agreements will continue in full force and effect in accordance with their 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

LCRA TRANSMISSION SERVICES
CORPORATION

By: 

By: _____

Name: Mark Carpenter

Name: Ray Pfefferkorn, P.E.

Title: SVP T&D System Ops & Measurement
Services

Title: Transmission Engineering Manager

Date: October 29, 2012

Date: _____

execution of this Amendment by the Parties.

15. Facility Schedule No. 20 attached to this Amendment is hereby added to the Agreement.
16. Facility Schedule No. 20 attached to this Amendment will become effective upon execution of this Amendment by the Parties.
17. The Letter Agreement between the Lower Colorado River Authority and Texas Power and Light Company, dated October 8, 1979 is deleted in its entirety and Facility Schedule No. 21 attached to this Amendment is hereby added to the Agreement in lieu thereof.
18. Facility Schedule No. 21 attached to this Amendment will become effective upon execution of this Amendment by the Parties.

Except as otherwise expressly provided for herein, the Agreements will continue in full force and effect in accordance with their 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: _____

Name: _____

Title: _____

Date: _____

LCRA TRANSMISSION SERVICES
CORPORATION

By: Ray Pfefferkorn

Name: Ray Pfefferkorn, P.E.

Title: Transmission Engineering Manager

Date: 9/27/12



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-WELLS BRANCH
3	COPPERAS COVE SUBSTATION
4	ELGIN SUBSTATION
5	ROUND ROCK SOUTH WELLS BRANCH
6	CAMP BOWIE SUBSTATION
7	GILLELAND CREEK 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	BROWNWOOD - FIRE ROCK
18	SOUTH ABILENE-ESKOTA
19	CRANE EAST SUBSTATION
20	HUTTO SWITCHING STATION
21	GABRIEL SUBSTATION
22	PLEASANT FARMS TAP

FACILITY SCHEDULE NO. 2

1. **Name:** Round Rock Wells Branch Point of Interconnection ("Point of Interconnection")
2. **Facility Location:** The Point of Interconnection is located outside the east fence at Oncor's Round Rock Substation. The Oncor Round Rock Substation is located at 1710 Sam Bass Road, Round Rock, TX 78681.
3. **Point of Interconnection Location:** The Point of Interconnection is a line to line interconnection at Oncor's 138 kV transmission structure #T/527/56 located approximately 75' east of Oncor's Round Rock Substation 138 kV deadend structure. The Point of Interconnection is at the points where Oncor's jumpers from Oncor's 138 kV slack span which extends from the Round Rock Substation deadend structure to structure # T/527/56 ("Oncor Slack Span") connect to the LCRA TSC 138 kV transmission line which extends from the LCRA TSC Wells Branch Substation to structure #T/527/56 ("LCRA TSC Transmission Line") (See attached One Line Diagram).
4. **Transformation Services Provided:** No
5. **Metering Services Provided:** No
6. **Delivery voltage:** 138 kV
7. **Metering Voltage and Location:** N/A
8. **One line diagram attached :** Yes
9. **Description of Facilities Owned by Each Party:**

Facilities owned by Oncor:

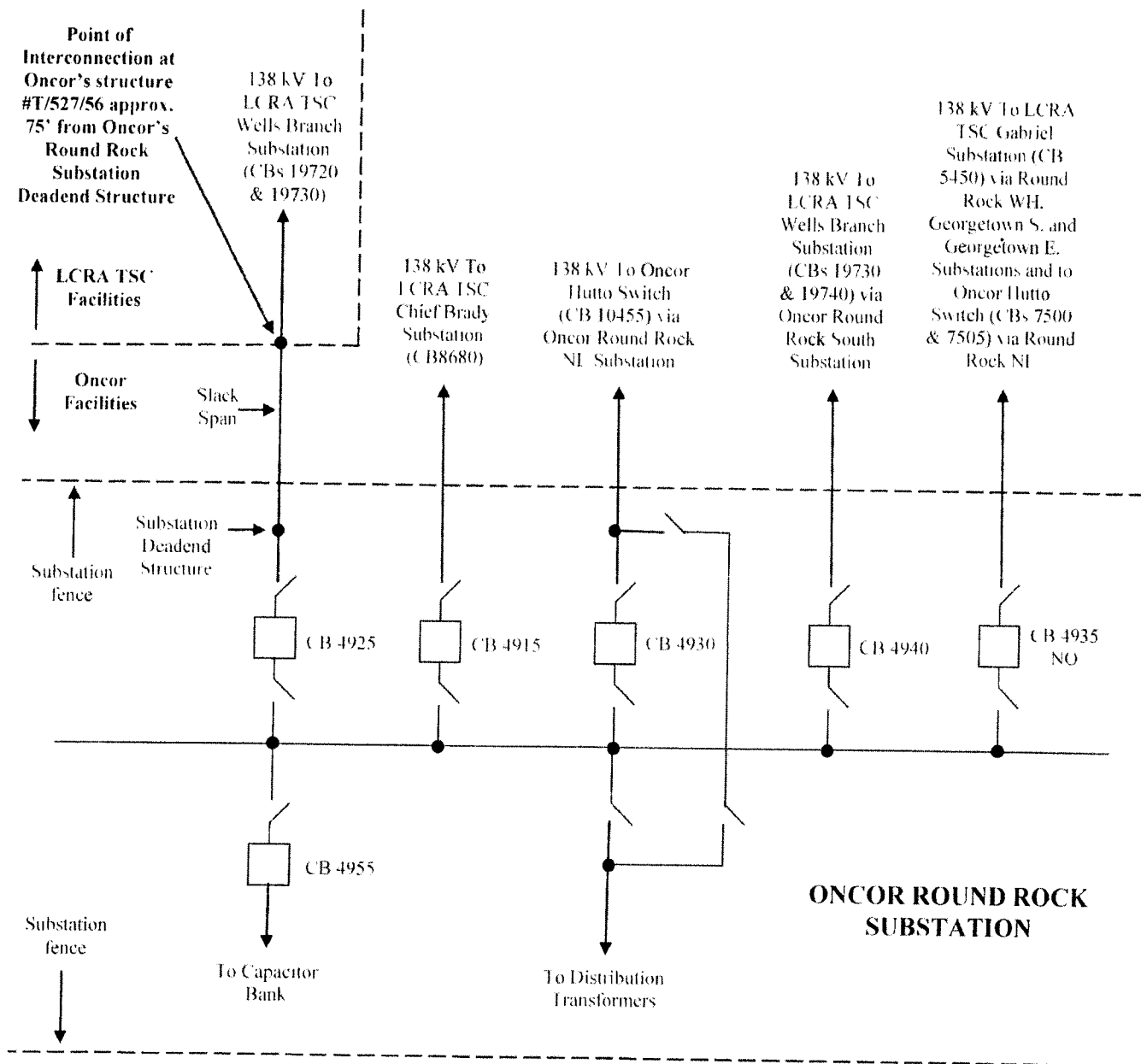
- (a) Transmission structure # T/527/56
- (b) The Oncor Slack Span and associated insulator strings and attachment hardware
- (c) Jumpers at transmission structure # T/527/56 to connect the Oncor Slack Span to the LCRA TSC Transmission Line
- (d) One (1) 138 kV breaker #4925 and associated facilities located in the Oncor Round Rock Substation

Facilities owned by the LCRA TSC:

- (a) The LCRA TSC Transmission Line and associated insulator strings and attachment hardware
- (b) Two (2) 138 kV circuit breakers #19720 and #19730 and associated facilities located in the LCRA TSC Wells Branch 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:** Oncor and the LCRA ISC will each be responsible for all costs it incurs in connection with constructing, operating, and maintaining its facilities at the Point of Interconnection provided, however, that this Paragraph 12 is subject to any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12 shall not relieve either Party of its respective obligations under those provisions

FACILITY SCHEDULE NO. 2 **ONE LINE DIAGRAM** **ROUND ROCK – WELLS BRANCH POINT OF INTERCONNECTION**



FACILITY SCHEDULE NO. 5

1. **Name:** Round Rock South Wells Branch Point of Interconnection ("Point of Interconnection")
2. **Facility Location:** The Point of Interconnection is located in Travis County, near the county line between Travis and Williamson counties, approximately two miles south of the Oncor Round Rock South Substation. The Oncor Round Rock South Substation is located at 3115 CR 172, Round Rock, Texas, 78681.
3. **Point of Interconnection:** The Point of Interconnection is a line to line interconnection located at the LCRA TSC 138 kV three-pole deadend structure #14, located one structure south of Oncor's transmission structure #5/7. The Point of Interconnection is at the points where the LCRA TSC jumpers from the LCRA TSC 138 kV transmission line which extends from the LCRA TSC Wells Branch Substation to the LCRA TSC structure #14 ("LCRA TSC Transmission Line") connect to the Oncor 138 kV transmission line which extends from the Oncor Round Rock Substation (via the Oncor Round Rock South Substation) to the LCRA TSC structure #14 ("Oncor Transmission Line") (see attached One Line Diagram).
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 Oncor:

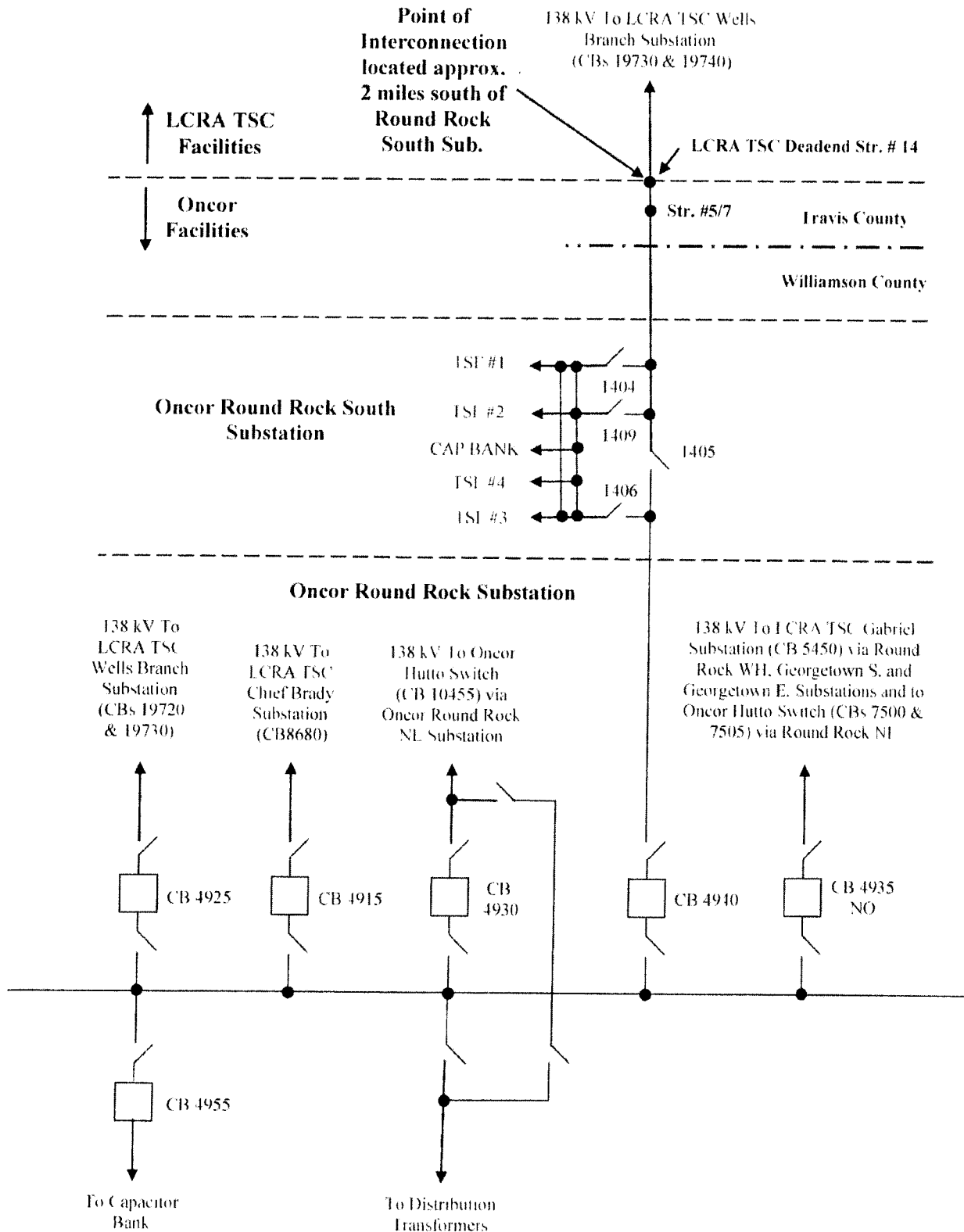
- (a) The Oncor Transmission Line and associated insulator strings and attachment hardware
- (b) One (1) 138 kV breaker #4940 and associated facilities located in the Oncor Round Rock Substation

Facilities Owned by the LCRA TSC:

- (a) Three-pole deadend structure #14
- (b) The LCRA TSC Transmission Line and associated insulator strings and attachment hardware
- (c) Jumpers at deadend structure #14 to connect the LCRA TSC Transmission Line to the Oncor Transmission Line at the Point of Interconnection
- (d) Two (2) 138 kV circuit breakers #19730 and #19740 and associated facilities located in the LCRA TSC Wells Branch 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:** 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 provided, however, that this Paragraph 12 is subject to any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12 shall not relieve either Party of its respective obligations under those provisions

FACILITY SCHEDULE NO. 5
ONE LINE DIAGRAM
ROUND ROCK SOUTH – WELLS BRANCH POINT OF INTERCONNECTION



FACILITY SCHEDULE NO. 7

1. **Name:** Gilleland Creek Substation Point of Interconnection ("Point of Interconnection")
2. **Facility Location:** The Point of Interconnection is located in the LCRA TSC Gilleland Creek Substation 138 kV switchyard located at 16275 Cameron Road, Pflugerville, Travis County Texas, 78660.
3. **Point of Interconnection:** The Point of Interconnection consists of two (2) 138 kV interconnections and shall be defined as the points:
 - (a) where the LCRA TSC jumpers connect to the Oncor 138 kV transmission line which extends from the LCRA TSC Gilleland Creek Substation to the Oncor Hutto Switching Station (via the Oncor Round Rock SE Substation) at the LCRA TSC deadend structure in the bay for breaker #10160; and
 - (b) where the LCRA TSC jumpers attach to the Oncor 138 kV transmission line which extends from the LCRA TSC Gilleland Creek Substation to the Oncor Hutto Switching Station (via the Oncor Pflugerville Substation) at the LCRA TSC deadend structure in the bay for breaker #10170 (See attached One Line Diagram) .
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:**

The LCRA TSC owns all facilities in the Gilleland Creek Substation 138 kV switchyard (except as otherwise specified below), including but not limited to the following facilities.

- (a) Two (2) 138 kV deadend structures to terminate the Oncor 138 kV transmission line which extends from the LCRA TSC Gilleland Creek Substation to the Oncor Hutto Switching Station (via the Oncor Round Rock SE Substation) and the Oncor 138 kV transmission line which extends from the LCRA TSC Gilleland Creek Substation to the Oncor Hutto Switching Station (via the Oncor Pflugerville Substation) (collectively, the "Oncor Transmission Lines")
- (b) Jumpers at the LCRA TSC deadend structures to connect to the Oncor Transmission Lines at the Point of Interconnection

- (c) Two (2) 138 kV circuit breakers #10160 (Round Rock SE line) and #10170 (Pflugerville line) and associated facilities located in the LCRA TSC Gilleland Creek Substation 138 kV switchyard

Facilities owned by Oncor:

- (a) A 7.618 acres tract of land occupied by the LCRA TSC Gilleland Creek Substation 138 kV switchyard (see Other Terms and Conditions concerning the LCRA TSC easement for this tract of land)
- (b) The Oncor Transmission Lines and associated insulator strings and attachment hardware to terminate the Oncor Transmission Lines on the LCRA TSC deadend structures located in the LCRA TSC Gilleland Creek Substation 138 kV switchyard
- (c) Two (2) 138 kV circuit breakers #7480 (Round Rock SE line) and #7485 (Pflugerville line) and associated facilities located in the Oncor Hutto Switching Station 138 kV switchyard

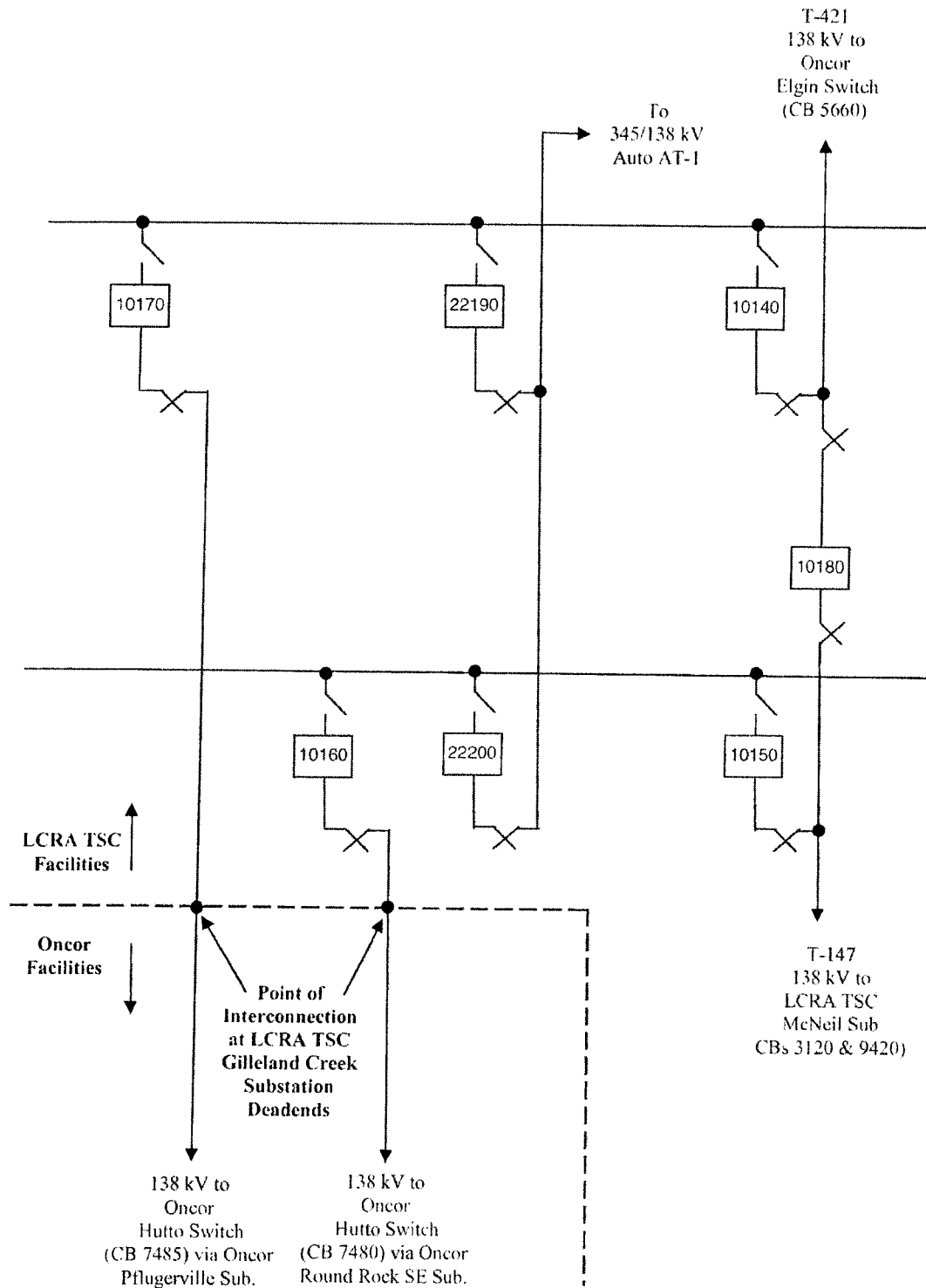
10. Operational Responsibilities of Each Party: Each Party will be fully responsible for the operation of the facilities it owns.

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 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 provided, however, that this Paragraph 12(a) is subject to any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12(a) shall not relieve either Party of its respective obligations under those provisions.
- (b) The LCRA TSC has an Electric Substation Easement and Right of Way from Texas Utilities Electric Co. (predecessor to Oncor) for the 7.618 acres tract of land occupied by the Gilleland Creek Substation 138 kV switchyard.

FACILITY SCHEDULE NO. 7
ONE LINE DIAGRAM
GILLELAND CREEK SUBSTATION POINT OF INTERCONNECTION



FACILITY SCHEDULE NO. 10

1. **Name:** Spraberry Switching Station Point of Interconnection ("Point of Interconnection").
2. **Facility Location:** From the intersection of Interstate 20 and Hwy 349 in Midland, travel south on Hwy 349 for 5 miles. Turn left (east) onto CR 160 and drive 3 miles. Take a right (south) on CR 1160 and go 5 miles. Substation will be to the left in Midland County Texas.
3. **Point of Interconnection location:** The Point of Interconnection is located at Oncor's deadend structure in Oncor's Spraberry Switching Station ("Substation") where Oncor's jumpers connect to the LCRA TSC's Spraberry Switching Station to Skywest Substation 138 kV transmission line ("LCRA TSC's Transmission Line"). The Skywest Substation will be constructed in the existing LCRA TSC Midkiff – Spraberry 138 kV transmission line and will consist of facilities owned by the LCRA TSC and facilities owned by Sharyland Utilities.
4. **Transformation Services Provided:** No
5. **Metering Services Provided:** No
6. **Delivery voltage:** 138 kV
7. **Metering Voltage and Location:** N/A
8. **One line diagram attached:** Yes
9. **Description of Facilities Owned by Each Party:**

Facilities to be owned by Oncor:

 - (a) One 138 kV deadend structure located in the Substation to terminate the LCRA TSC's Transmission Line
 - (b) One 138 kV circuit breaker #2870 and associated facilities located in the Substation

Facilities to be owned by the LCRA TSC:

 - (a) The LCRA TSC's Transmission Line, including associated foundations, structures, insulators, connectors, transmission line conductors, shield wire, and associated hardware and assemblies to terminate the LCRA TSC's Transmission Line on Oncor's deadend structure in the Substation
 - (b) Two 138 kV circuit breakers #24470 and #24480 and associated facilities located in the Skywest Substation
10. **Operational Responsibilities of Each Party:** Each Party will be fully responsible for the operation of the facilities it owns.

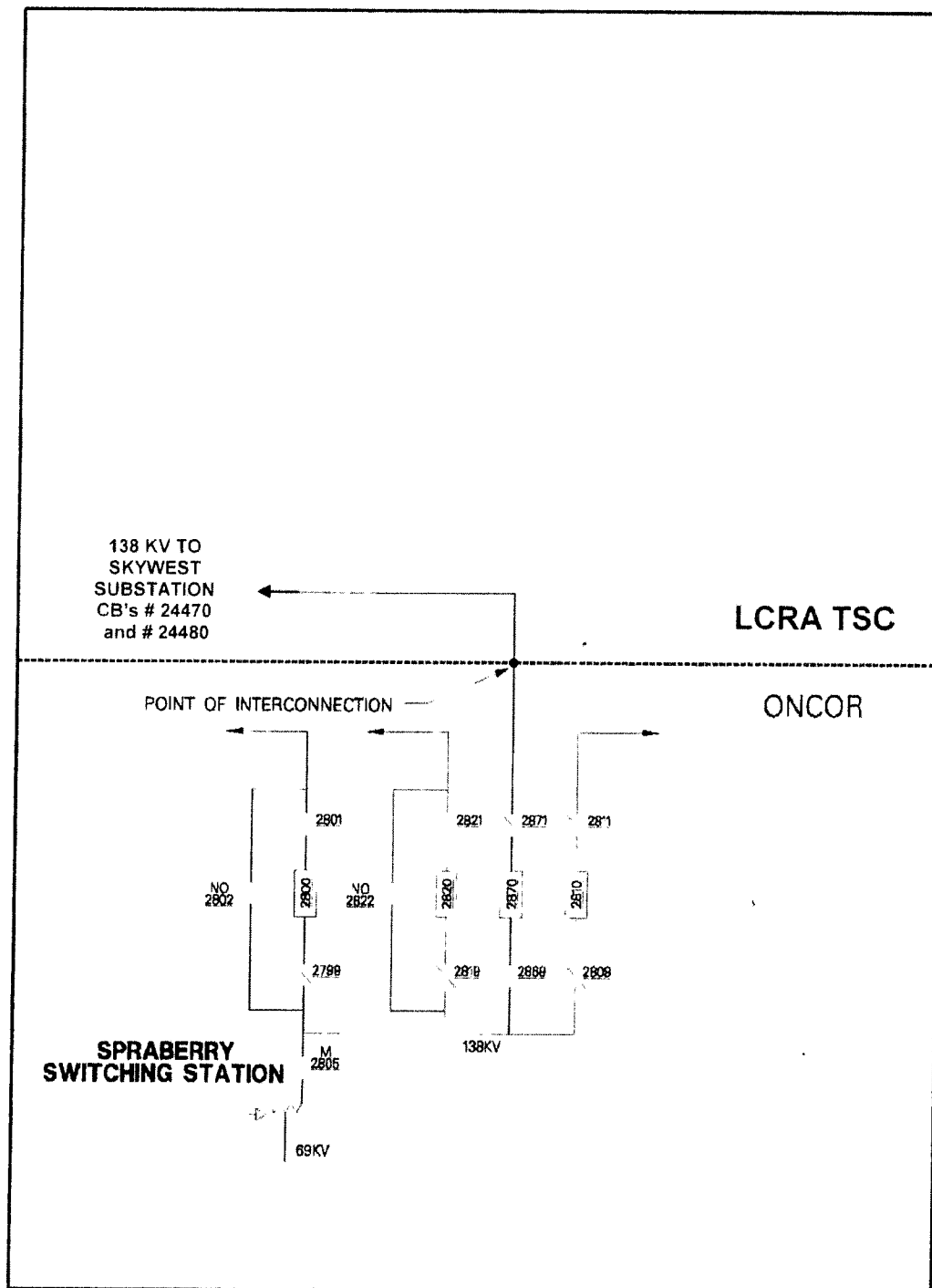
11. Maintenance Responsibilities of Each Party: Each Party will be fully responsible for the maintenance of the facilities it owns.

12. Other Terms and Conditions:

(a) Oncor 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 provided, however, that this Paragraph 12(a) is subject to (i) Paragraph 12(b) below and (ii) any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12(a) shall not relieve either Party of its respective obligations under those provisions

(b) Modifications to Oncor's system protection equipment will be required at the Substation due to the installation of the Skywest Substation. Pursuant to the Agreement and this Facility Schedule No.10, Oncor will proceed with the engineering, procurement of equipment and materials, and construction required to modify its system protection equipment at the Substation. If the LCRA TSC Transmission Line is not established (by terminating the existing LCRA TSC Midkiff Spraberry 138 kV transmission line at the Skywest Substation) and energized by June 1, 2014, a) the LCRA TSC will pay to Oncor all costs incurred by Oncor pursuant to this Facility Schedule No.10 that (i) Oncor has incurred prior to such date for engineering, procuring equipment and materials, construction, and any other costs related to Oncor's system protection equipment modifications at the Substation and (ii) Oncor has committed to incur prior to such date that it is unable to avoid using commercially reasonable steps, and b) the LCRA TSC will pay to Oncor all costs that Oncor incurs after such date to return the system protection equipment at the Substation to a condition consistent with Oncor's construction standards and Oncor's Tariff for Transmission Service. In calculating Oncor's costs under this Paragraph 12(b), such costs shall include the normal loadings Oncor applies to construction projects of this nature and shall be increased by an adder to cover the effects of the LCRA TSC's payment on Oncor's tax liability. The provisions of this Paragraph 12(b) shall survive termination or deletion of, this Facility Schedule No.10.

**FACILITY SCHEDULE NO. 10
ONE LINE DIAGRAM
SPRABERRY SWITCHING STATION POINT OF INTERCONNECTION**



FACILITY SCHEDULE NO. 11

1. **Name:** Midkiff Switching Station Point of Interconnection ("Point of Interconnection").
2. **Facility Location:** From Big Lake, travel west on U.S. 67 for 14.2 miles and then head north on FM 1555. Drive 12 miles and take a right on FM 2594. Then go 11.2 miles and take a right on an unnamed gravel road. Go 0.9 miles, make a sharp left, then 0.7 miles and a sharp right. Next, drive .25 miles, make a sharp left, 0.3 miles and a sharp right. Finally, travel 0.75 miles, make a sharp right and the substation will be .40 miles ahead in Upton County Texas.
3. **Point of Interconnection location:** The Point of Interconnection consists of the two 138 kV points at Oncor's deadend structures in Oncor's Midkiff Switching Station ("Substation") where Oncor's (1) jumpers connect to the LCRA TSC's Midkiff Switching Station to Skywest Substation 138 kV transmission line and (2) jumpers connect to the LCRA TSC's transmission line which extends from the Substation to the LCRA TSC's Crane Substation (via the Upton and Crane East Substations) (collectively, the "LCRA TSC's Transmission Lines"). The Skywest Substation will be constructed in the existing LCRA TSC Midkiff – Spraberry 138 kV transmission line and will consist of facilities owned by the LCRA TSC and facilities owned by Sharyland Utilities.
4. **Transformation Services Provided:** No
5. **Metering Services Provided:** No
6. **Delivery voltage:** 138 kV
7. **Metering Voltage and Location:** N/A
8. **One line diagram attached:** Yes
9. **Description of Facilities Owned by Each Party:**

Facilities to be owned by Oncor:

- (a) Two 138 kV deadend structures to terminate the LCRA TSC's Transmission Lines
- (b) Two 138 kV circuit breakers #4875 and #4885 and associated facilities located in the Substation

Facilities to be owned by the LCRA TSC:

- (a) The LCRA TSC's Transmission Lines, including associated foundations, structures, insulators, connectors, transmission line conductors, shield wire, and associated hardware and assemblies to terminate the LCRA TSC's Transmission Lines on Oncor's deadend structures in the Substation.
- (b) Two 138 kV circuit breakers #24480 and #24490 and associated facilities located in the

Skywest Substation

- (c) Two 138 kV circuit breakers #13420 and #13430 and associated facilities located in the LCRA TSC's Crane Substation.

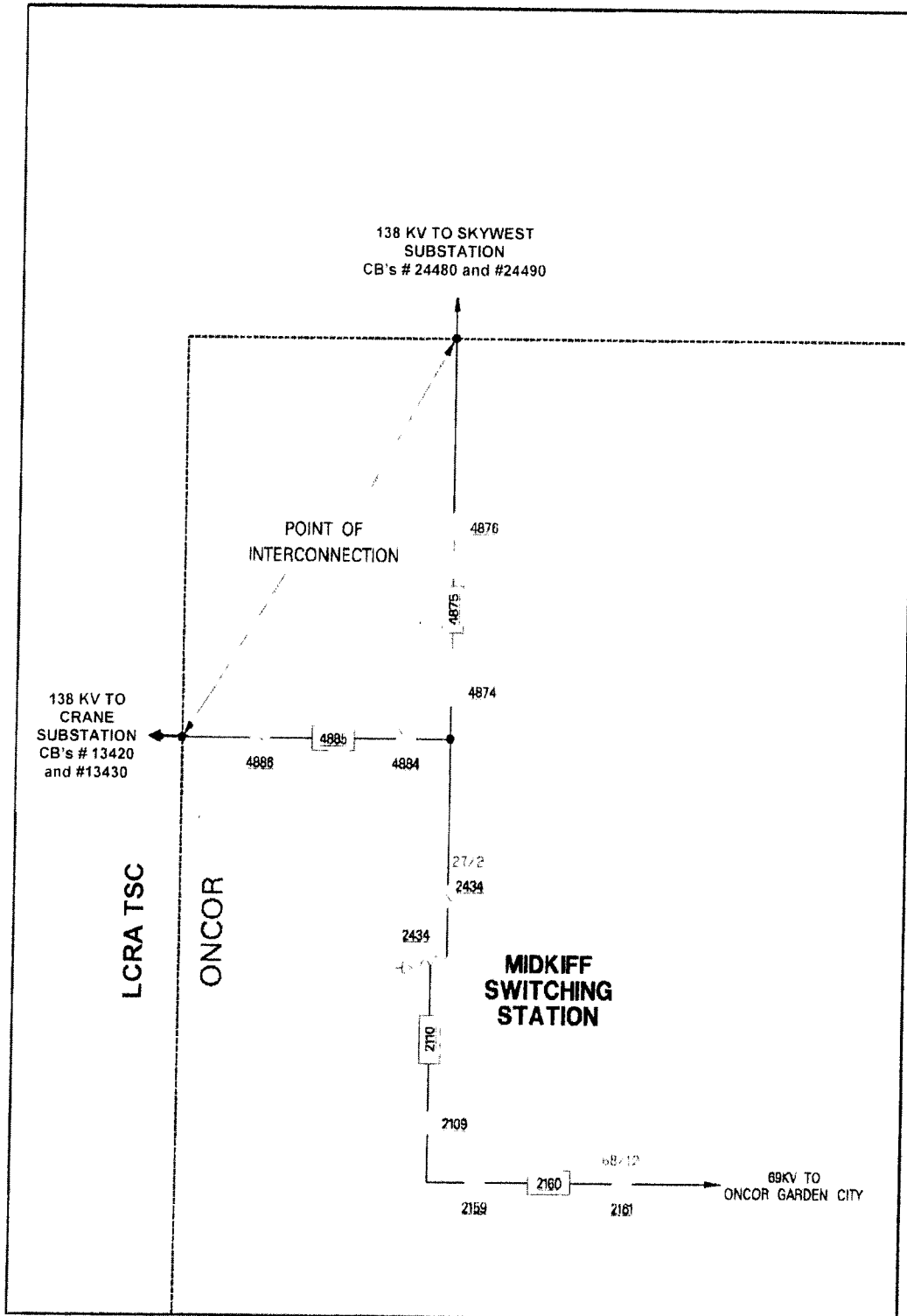
10. Operational Responsibilities of Each Party: Each Party will be fully responsible for the operation of the facilities it owns.

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 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 provided, however, that this Paragraph 12(a) is subject to (i) Paragraph 12(b) below and (ii) any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12(a) shall not relieve either Party of its respective obligations under those provisions.
- (b) Modifications to Oncor's system protection equipment will be required at the Substation due to the installation of the Skywest Substation. Pursuant to the Agreement and this Facility Schedule No.11, Oncor will proceed with the engineering, procurement of equipment and materials, and construction required to modify its system protection equipment at the Substation. If the LCRA TSC Transmission Line is not established (by terminating the existing LCRA TSC Midkiff – Spraberry 138 kV transmission line at the Skywest Substation) and energized by June 1, 2014, a) the LCRA TSC will pay to Oncor all costs incurred by Oncor pursuant to this Facility Schedule No.11 that (i) Oncor has incurred prior to such date for engineering, procuring equipment and materials, construction, and any other costs related to Oncor's system protection equipment modifications at the Substation and (ii) Oncor has committed to incur prior to such date that it is unable to avoid using commercially reasonable steps, and b) the LCRA TSC will pay to Oncor all costs that Oncor incurs after such date to return the system protection equipment at the Substation to a condition consistent with Oncor's construction standards and Oncor's Tariff for Transmission Service. In calculating Oncor's costs under this Paragraph 12(b), such costs shall include the normal loadings Oncor applies to construction projects of this nature and shall be increased by an adder to cover the effects of the LCRA TSC's payment on Oncor's tax liability. The provisions of this Paragraph 12(b) shall survive termination or deletion of, this Facility Schedule No.11.

**FACILITY SCHEDULE NO. 11
ONE LINE DIAGRAM
MIDKIFF SWITCHING STATION POINT OF INTERCONNECTION**



FACILITY SCHEDULE NO. 17

1. **Name:** Brownwood - Firerock Point of Interconnection ("Point of Interconnection")
2. **Facility Location:** The Point of Interconnection is located in Brown County near the county line between Coleman and Brown counties.
3. **Point of Interconnection:** The Point of Interconnection is a line to line interconnection located at Oncor's 138 kV transmission structure #70 where the Oncor jumpers from the Oncor 138 kV transmission line which extends from the Oncor Brownwood Substation to structure #70 ("Oncor Transmission Line") connect to the LCRA TSC 138 kV transmission line which extends from the Electric Transmission Texas (ETT) Firerock Substation to structure #70 ("LCRA TSC Transmission Line") (See attached One Line Diagram).
4. **Transformation Services Provided:** No
5. **Metering Services Provided:** No
6. **Delivery voltage:** 138 kV
7. **Metering Voltage and Location:** N/A
8. **One line diagram attached:** Yes
9. **Description of Facilities Owned by Each Party:**

Facilities owned by Oncor

- (a) Transmission structure #70
- (b) Oncor Transmission Line and associated insulator strings and attachment hardware
- (c) Jumpers at transmission structure #70 to connect the Oncor Transmission Line to the LCRA TSC Transmission Line at the Point of Interconnection
- (d) One (1) 138 kV breaker #6835 and associated facilities located in the Oncor Brownwood Substation

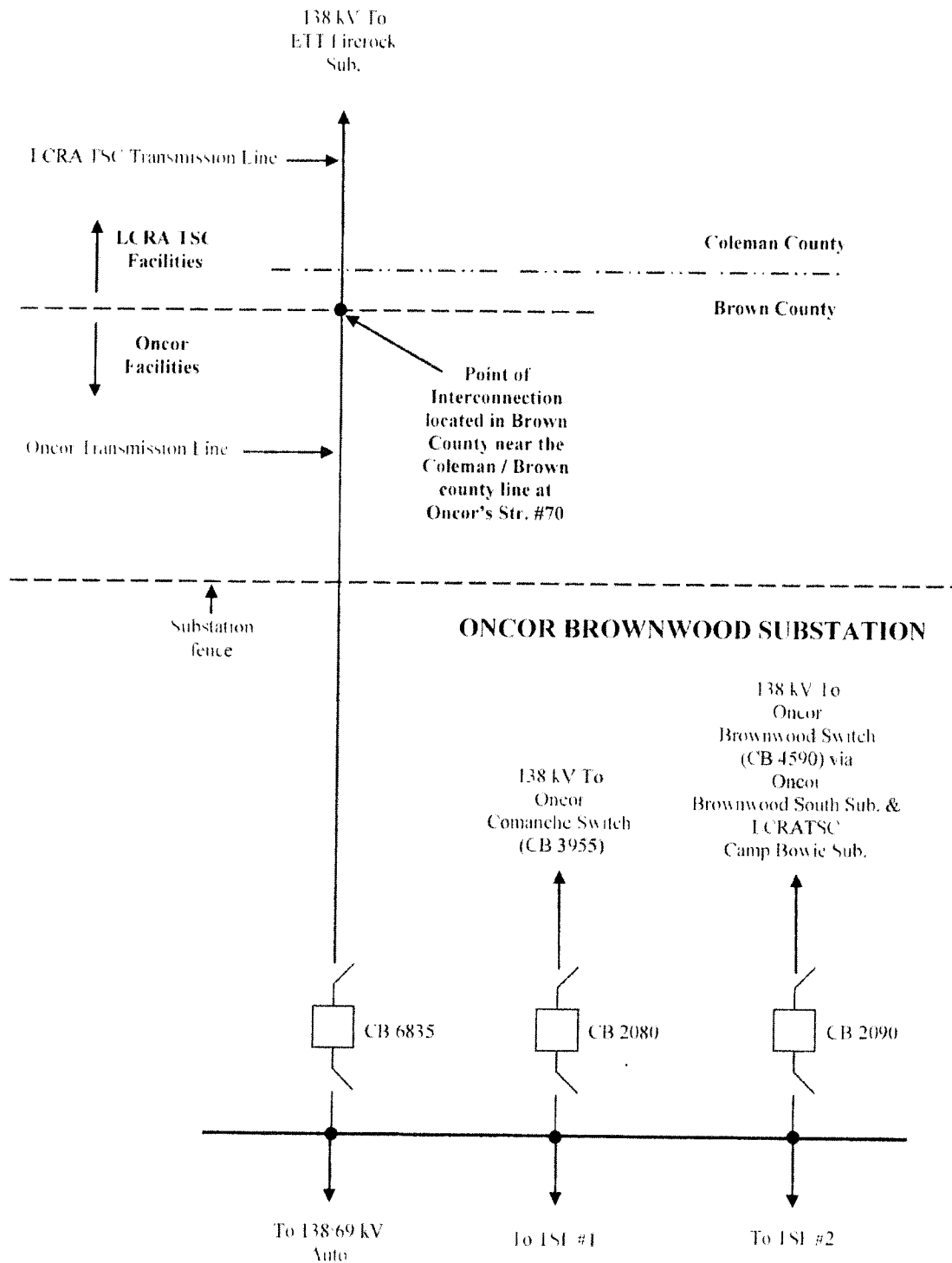
Facilities owned by the LCRA TSC:

LCRA TSC Transmission Line and associated insulator strings and attachment hardware

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:** 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 provided, however, that this Paragraph 12 is subject to any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12 shall not relieve either Party of its respective obligations under those provisions.

**FACILITY SCHEDULE NO. 17
ONE LINE DIAGRAM
BROWNWOOD – FIREROCK POINT OF INTERCONNECTION**



FACILITY SCHEDULE NO. 20

1. **Name:** Hutto Switching Station Point of Interconnection ("Point of Interconnection")
2. **Facility Location:** The Hutto Switching Station Point of Interconnection is located outside the north fence at Oncor's Hutto Switching Station. Hutto Switching Station is located at 651 CR 119, northwest of the intersection of CR 165 and CR 119 in Williamson County, Texas.
3. **Point of Interconnection:** The Hutto Switching Station Point of Interconnection consists of two (2) line to line interconnections and shall be defined as the points at the LCRA TSC 345 kV transmission structure #428:
 - (a) where the LCRA TSC jumpers from the LCRA TSC 345 kV transmission circuit which extends from the LCRA TSC Gilleland Creek Substation to the LCRA TSC transmission structure #428 connect to the Oncor 345 kV transmission circuit which extends approximately 450' from the Oncor Hutto Switching Station deadend structure to the LCRA TSC transmission structure #428; and
 - (b) where the LCRA TSC jumpers from the LCRA TSC 345 kV transmission circuit which extends from the LCRA TSC Zorn Switching Station to the LCRA TSC transmission structure #428 connect to the Oncor 345 kV transmission circuit which extends approximately 450' from the Oncor Hutto Switching Station deadend to the LCRA TSC transmission structure #428 (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 Hutto Switching Station
- (b) Approximately 450 feet of double-circuit 345 kV transmission line extending from the Oncor Hutto Switching Station deadend structures to the LCRA TSC's transmission structure #428 and associated insulator strings and attachment hardware
- (c) Four (4) 345 kV breakers #10365 and #10370 (Zorn line) and #10380 and #10385 (Gilleland Creek line) and associated facilities located in the Oncor Hutto Switching Station

Facilities owned by the LCRA TSC:

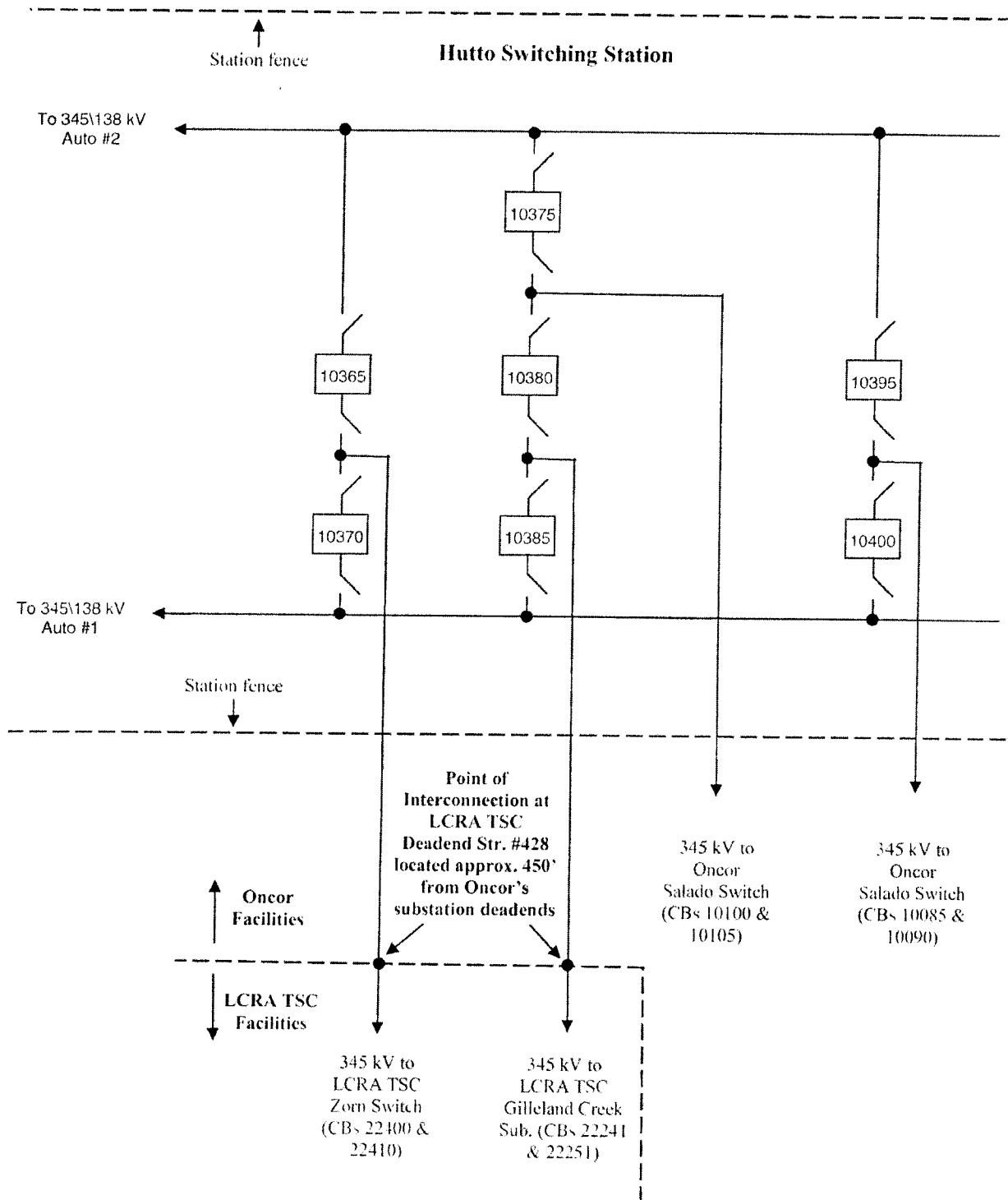
- (a) 345 kV transmission structure #428
- (b) One (1) 345 kV transmission circuit extending from the LCRA TSC Zorn Switching Station to the LCRA TSC structure #428 and associated insulator strings and attachment hardware
- (c) One (1) 345 kV transmission circuit extending from the LCRA TSC Gilleland Creek Substation to the LCRA TSC structure #428 and associated insulator strings and attachment hardware
- (d) Jumpers at the LCRA TSC structure #428 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 #22400 and #22410 and associated facilities located in the LCRA TSC Zorn Switching Station
- (f) Two (2) 345 kV breakers #22240 and #22250 and associated facilities located in the LCRA TSC Gilleland Creek 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: 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 provided, however, that this Paragraph 12 is subject to any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12 shall not relieve either Party of its respective obligations under those provisions.

FACILITY SCHEDULE NO. 20
ONE LINE DIAGRAM
HUTTO SWITCHING STATION POINT OF INTERCONNECTION



FACILITY SCHEDULE NO. 21

1. **Name:** Gabriel Substation Point of Interconnection ("Point of Interconnection")
2. **Facility Location:** The Point of Interconnection is located approximately 1.26 miles east of the LCRA TSC Gabriel Substation. The LCRA TSC Gabriel Substation is located in Williamson County 2.5 miles northeast of Georgetown, TX, and approximately 0.25 miles east of the intersection of Business IH35 and CR 151, on the south side of CR 151.
3. **Points of Interconnection:** The Point of Interconnection consists of two (2) line to line interconnections and shall be defined as the points at Oncor's transmission structure #25/8:
 - (a) where the Oncor jumpers from the Oncor 138 kV transmission circuit which extends from the Oncor Hutto Switching Station (via the Oncor Round Rock NF Substation, Round Rock Tap and Round Rock Westinghouse Substation and the City of Georgetown Utilities Georgetown South Substation and Georgetown East Substation) to structure #25/8 connect to the LCRA TSC 138 kV transmission circuit which extends from the LCRA TSC Gabriel Substation to the structure #25/8; and
 - (b) where the Oncor jumpers from the Oncor 138 kV transmission circuit which extends from the Oncor Salado Switching Station (via the Brazos Electric Power Cooperative, Inc. Sonterra Substation and the Oncor Jarrell East Substation) to structure #25/8 connect to the LCRA TSC 138 kV transmission circuit which extends from the LCRA TSC Gabriel Substation to structure #25/8 (See attached One Line Diagram).
4. **Transformation Service provided:** No
5. **Metering Service 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 the LCRA TSC

- (a) One (1) double-circuit 138 kV transmission line from the LCRA TSC Gabriel Substation to Oncor's 138 kV transmission structure #25/8 and associated insulator strings and attachment hardware
- (b) Two (2) 138 kV breakers #5450 (Hutto line) and #5430 (Salado line) and associated facilities located in the LCRA TSC Gabriel Substation

Facilities owned by Oncor

- (a) 138 kV transmission structure #25/8
- (b) One (1) 138 kV transmission circuit extending from the Oncor Hutto Switching Station (via the Oncor Round Rock NL Substation, Round Rock Tap and Round Rock Westinghouse Substation and the City Of Georgetown Utilities Georgetown South Substation and Georgetown East Substation) to structure #25/8 and associated insulator strings and attachment hardware
- (c) One (1) 138 kV transmission circuit extending from the Oncor Salado Switching Station (via the Brazos Electric Power Cooperative, Inc. Sonterra Substation and the Oncor Jarrell East Substation) to structure #25/8 and associated insulator strings and attachment hardware
- (d) Jumpers at structure #25/8 to connect the two Oncor circuits to the two LCRA TSC circuits at the Point of Interconnection
- (e) Two (2) 138 kV breakers #7500 and #7505 and associated facilities located in the Oncor Hutto Switching Station

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: 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 provided, however, that this Paragraph 12 is subject to any other provisions of this Agreement with respect to liability and indemnification and this Paragraph 12 shall not relieve either Party of its respective obligations under those provisions

FACILITY SCHEDULE NO. 21 **ONE LINE DIAGRAM** **GABRIEL SUBSTATION POINT OF INTERCONNECTION**

