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PUC Project No. 35077

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Sixth Amendment to

INTERCONNECTION AGREEMENT

Between

New Braunfels Utilities

and

LCRA Transmission Services Corporation

Dated

May 23, 2017

**SIXTH AMENDMENT TO
INTERCONNECTION AGREEMENT**

This Sixth Amendment to Interconnection Agreement (“Sixth Amendment”) is made and entered into this 23 day of May, 2017, between New Braunfels Utilities (“NBU”), a municipally owned utility and LCRA Transmission Services Corporation (“LCRA TSC”) collectively referred to hereinafter as the Parties.

WHEREAS, LCRA TSC and NBU entered into that certain Interconnection Agreement executed July 22, 2009, as amended by that certain Amendment No. 1, executed as of December 16, 2009, as amended by that certain Amendment No. 2, executed as of January 17, 2011, as amended by that certain Amendment No. 3, executed as of January 8, 2014, as amended by that certain Amendment No. 4, executed as of September 17, 2014, as amended by that certain Amendment No. 5, executed as of June 3, 2015 (collectively, as amended, the “Agreement”),

WHEREAS, NBU will install an additional PWT, 138kV circuit switcher, distribution breakers and new control house at Henne Substation; and

WHEREAS, NBU has transferred the original Henne Substation control house and appurtenances to LCRA TSC through a bill of sale executed contemporaneously with this Sixth Amendment.

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” Amendment No. 5, attached to the Agreement, is deleted in its entirety and Exhibit “A” Amendment No. 6, attached to this Sixth Amendment, is substituted as Exhibit A of the Agreement as of the effective date of this Sixth Amendment.
2. Facility Schedule No. 3 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 3, attached to this Sixth Amendment, is hereby added to the Agreement in lieu thereof.
3. The changes described in this Sixth Amendment, and the diagrams attached thereto, will become effective upon execution of this Sixth Amendment.

Except as otherwise expressly provided in this Sixth Amendment, all the terms and conditions of the Agreement shall remain in full force and effect.

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IN WITNESS WHEREOF, the Parties, acting through their authorized representatives, have executed this Sixth Amendment in two counterparts, each of which shall be deemed an original but shall constitute one and the same instrument.

NEW BRAUNFELS UTILITIES

By: *hT*

Name: Ian Taylor

Title: Chief Executive Officer

Date: 5/23/2017

LCRA TRANSMISSION SERVICES CORPORATION

By: *[Signature]*

Name: Sergio Garza, P.E.

Title: LCRA Vice President, Transmission Design and Protection

Date: May 08, 2017



EXHIBIT A
Amendment No 6

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (KV)	EFFECTIVE DATE OF INTERCONNECTION
1	Comal (6)	138 kV	June 3, 2015
2	Freiheit Road (2)	138 kV	July 22, 2009
3	Henne (6)	138 kV	Date of this Amendment
4	Highway 46 (1)	138 kV	January 8, 2014
5	Hortontown (3)	138 kV	July 22, 2009
6	Sheriff's Posse (1)	138 kV	July 22, 2009
7	Marion (2)	138 kV	January 17, 2011
8	EC Mornhinweg (1)	138 kV	September 17, 2014
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FACILITY SCHEDULE NO. 3
Amendment No 6

1. **Name:** Henne Substation
2. **Facility Location:** Henne Substation is located at 5207 Goodwin Lane, New Braunfels, Comal County, Texas 78130.
3. **Points of Interconnection:** There are six (6) Points of Interconnection in Henne Substation generally described as:
 - where the 138 kV operating bus #1 terminal connector bolts to the four hole pad on switch 5869.
 - where the 138 kV transfer bus terminal connector bolts to the four hole pad on switch 5873.
 - where the 138 kV operating bus #2 terminal connector bolts to the four hole pad on switch 4446.
 - where the 138 kV transfer bus terminal connector bolts to the four hole pad on switch 4443.
 - where the 138 kV operating bus #1 terminal connector bolts to the four hole pad on switch 27286.
 - where the 138 kV transfer bus terminal connector bolts to the four hole pad on switch 27283.
4. **Transformation Services Provided by LCRA TSC:** No
5. **Metering Services Provided by LCRA TSC:** Yes, per Wholesale Metering Services Agreement between the Parties
6. **Delivery Voltage:** 138 kV
7. **Metered Voltage and Location:** The metering voltage is 12.5 kV and 138 kV. The metering current transformers are located inside T1, inside T2 and inside circuit breaker 5870NB. The bus potential transformers are located on the T1 and T2, 12.5 kV operating bus and 138 kV Operating Bus #1.
8. **One Line Diagram Attached:** Yes
9. **Description of Facilities Owned by Each Party:**

NBU owns:
Henne Substation including, but not limited to, the following items:

 - Two (2) 138 kV dead-end structures, foundations, insulators and jumpers in Operating Bus # 1, bay #2 and bay #6
 - One (1) 138 kV circuit breaker 5870NB including foundation, jumpers and

- protective relay package
- Nine (9) 138 kV switches 4443, 4444, 4446, 5869, 5871, 5873, 27283, 27284 and 27286
- Two (2) circuit switchers CS4445 and CS27285 with associated bypass switches 4447 and 27287
- Two (2) power transformers T1 and T2 with associated surge arresters, foundations, jumpers and protective relaying
- Two (2) 138 kV transformer buses T1 and T2 including insulators and jumpers
- Two (2) transformer bus towers including foundations, insulators and jumpers
- All T1 and T2 distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
- All T1 and T2 distribution circuit breakers including jumpers, protective relay packages and foundations
- All T1 and T2 distribution and total bays including A-frames, trusses, insulators, disconnect switches, bus tie switches, surge arresters, 12.5 kV operating and transfer buses, bus potential transformers and associated cabling
- Underfrequency relay equipment
- Three (3) Station Service SS2, SS3 and SS4
- One (1) New control house, battery bank, battery charger and appurtenances
- Substation property, ground grid, gravel, fencing and other appurtenances

LCRA TSC owns:

- The 138 kV dead-end structures, foundations, insulators and jumpers in Operating Bus #2, bays # 2, #3, #5 and Operating Bus #1, bays #4 and #5
- 138 kV operating bus #1 including structures, insulators, foundations and jumpers
- Two (2) 138 kV bus differential and breaker failure relaying schemes
- One (1) 138 kV bus potential transformer PT1 with stand and foundation
- 138 kV operating bus #2 and transfer bus including structures, insulators, foundations and jumpers
- Five (5) 138 kV circuit breakers 5860, 5880, 5890, 5900 and 5910 including foundations, jumpers and protective relay packages
- Fifteen (15) 138 kV switches 5859, 5861, 5863, 5879, 5881, 5883, 5889, 5891, 5893, 5899, 5901, 5903, 5909, 5911 and 5913
- One (1) wave trap and line tuner WT3
- One (1) coupling capacitor CC3
- One (1) 138 kV bus potential transformer PT2
- One (1) 138 kV power voltage transformer PVT1
- Four (4) 138 kV surge arresters SA1, SA2, SA8 and SA9 with stands and foundations
- Three (3) 138 kV relaying current transformers CT1, CT2 and CT3
- One (1) original control house (25' x 65') with battery bank, battery charger and appurtenances; including AC panels and station service entry cable(s) between original control house & station service transformer(s)

10. Operational Responsibilities of Each Party: Each Party will be 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:

- NBU and LCRA TSC are to share access to the substation by LCRA TSC locks in the gates and control house doors.
- LCRA TSC will supply and provide tripping and close inhibit contacts from its 138 kV bus differential and breaker failure panel to NBU's circuit breaker 5870NB and circuit switchers CS4445 and CS27285 relaying panels.
- NBU will supply and provide breaker failure initiate contacts from its circuit breaker 5870NB and circuit switchers CS4445 and CS27285 relaying panels to LCRA TSC's 138 kV bus differential and breaker failure panel.
- NBU will supply and provide metering and relaying current transformers from its circuit breaker 5870NB for use by LCRA TSC in LCRA TSC's metering and 138 kV bus differential relaying schemes.
- NBU will supply and allow LCRA TSC use of its 12.5 kV bus potential transformer PT3 and PT4 for LCRA TSC's metering.
- NBU will supply and allow LCRA TSC use of transformers T1 and T2 metering and relaying bushing current transformers for LCRA TSC's metering and 138 kV bus differential relaying scheme.
- LCRA TSC and NBU shall design, provide, and coordinate their respective protection system equipment so that adjacent zones of protection overlap, in accordance with ERCOT Nodal Operating Guides.

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HENNE ONE-LINE DIAGRAM

Amendment No 6

