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**Amendment to Interchange Agreement**

**Between**

**South Texas Electric Cooperative**

**and**

**LCRA Transmission Services Corporation**

**December 19, 2014**

522

**AMENDMENT TO  
INTERCHANGE AGREEMENT**

This Amendment ("Amendment") to the Interchange Agreement, dated October 7, 1987 ("the Agreement"), between South Texas Electric Cooperative ("STEC") and the Lower Colorado River is made and entered into this 19 day of December, 2014 between STEC and the LCRA Transmission Services Corporation ("Corporation") (assignee of the Lower Colorado River Authority), and collectively referred to hereinafter as the Parties. In consideration of the mutual promises and undertakings herein set forth, the Parties agree to amend the Agreement as follows:

1. Facility Schedule No. 10 (including the diagrams attached thereto) attached to the Interchange Agreement is hereby deleted in its entirety and Facility Schedule No. 10 attached to this Amendment is added to the Agreement in lieu thereof.
2. Facility Schedule No. 10 (including the diagrams attached thereto) attached to this Amendment will become effective upon execution of this Amendment by the Parties.
3. 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.

SOUTH TEXAS ELECTRIC  
COOPERATIVE

By: \_\_\_\_\_

Name: Mike Kezar

Title: General Manager

Date: 19 DEC 14

LCRA TRANSMISSION SERVICES  
CORPORATION

By: \_\_\_\_\_

Name: Ray Pfefferkorn, P.E.

Title: LCRA Transmission Engineering Manager

Date: 10/27/14



## FACILITY SCHEDULE NO. 10

1. Name: Nada Substation (the Point of Interconnection)
2. Point of Interconnection location: The Points of Interconnection are located at the Nada Substation in Colorado County, Texas. The Points of Interconnection are where the Corporation's 69 kV bus attaches to STEC's switch 277 and where the Corporation's 138 kV bus attaches to STEC's switch 11249.
3. Delivery Voltage: 69 kV and 138 kV
4. Metering: N/A
5. Normal closed: Yes
6. One-Line Diagram Attached: Yes
7. Facilities owned by STEC:  
The Nada Substation including, but not limited to, the following items:
  - The 69 kV Nada to EL Campo transmission line
  - The 138 kV Nada to Colorado transmission line (STEC's section from Nada to Point of Interconnection at the Corporation's Structure #77)
  - 69 kV bus including support structures, foundations and jumpers
  - 69 kV box structure, foundations, insulators and jumpers
  - One (1) 69 kV gas circuit breaker 238 including foundation, jumpers and protective relay panels
  - One (1) disconnect switch no. 277
  - Three (3) 69 kV disconnect switches 237, 239 and 240
  - One (1) power transformer, T1 with fuse protection and associated bus disconnect switch No. 391
  - One (1) 138 kV dead-end structure, foundation, insulators and jumpers
  - One (1) 138 kV breaker 11248 including foundations, jumpers and protective relay panels
  - Three (3) 138 kV disconnect switches 11247, 11249 and 11250
  - One (1) 138 kV bus potential transformer PT2
  - One (1) 138 kV surge arrester SA7
  - All distribution bays including structures, insulators, disconnect switches, surge arresters, buses, bus potential transformers and associated cabling (distribution not shown on one line drawing)
  - All distribution circuit breakers including jumpers, protective relay packages and foundations
  - Control House (16' x 24') and all equipment in the control house
  - Substation property, ground grid, gravel, fence and other appurtenances
  - Communications and SCADA equipment including RTU and antenna pole

8. Facilities owned by the Corporation:

- The Nada to Altair 69 kV transmission line
- The Nada to Ricebird 138 kV transmission line
- One (1) 69 kV dead-end structure, foundation, insulators and jumpers
- One (1) 138 kV dead-end structure, foundation, insulators and jumpers
- 69 kV bus including support structures, foundations and jumpers
- 138 kV bus including support structures, foundations and jumpers
- Two (2) 138 kV circuit breakers 24210 and 24680 including foundation, jumpers and protective relay panel
- Four (4) 138 kV disconnect switches 24209, 21211, 24213 and 24679
- One (1) 138 kV surge arrester SA4
- One (1) 138 kV coupling capacitor voltage transformer CCVT1
- One (1) autotransformer AT1 with associated surge arresters SA2 (138 kV), SA-1 (69 kV), SA3 (Tertiary)
- Two (2) sets of 69 kV surge arresters SA5 and SA6
- One (1) 69 kV power potential transformer PVT1(backup station service)
- One (1) single phase 69 kV bus potential transformer PT3
- One (1) 69 kV bus potential transformer PT1
- Two (2) 69 kV circuit breakers 24220 and 24230 including foundations, jumpers and protective relay panels
- Three (3) 69 kV disconnect switches 24219, 24229 and 24231
- One (1) station service SS1 with fuse F1
- Control House
- Battery bank and charger
- One (1) RTU with associated interface and communications equipment
- 69kV bus differential utilizing STEC owned and supplied internal current transformer from circuit breaker 238 and external current transformers CT1 for transformer T1
- 138kV bus differential utilizing STEC owned and supplied internal current transformer from circuit breaker 11248

9. Operational and Maintenance Responsibility:

- Each Party will be responsible for the operation and maintenance of the facilities it owns.
- STEC will direct and coordinate all switching for STEC's facilities, including its 69 kV and 138 kV transmission line and associated 69 kV and 138 kV circuit breaker (s), disconnect switches and distribution facilities associated with its transformer(s). These facilities will not be locked or switched by the Corporation unless done so in accordance with STEC System Operations dispatch instructions.
- The Corporation will direct and coordinate all switching for the Corporation's facilities, including the 138 kV and 69 kV transmission lines and associated 138 kV and 69 kV circuit breakers and disconnect switches. STEC and its member cooperatives will be allowed to switch the Corporation's equipment

as long as they have received the Corporation's Switch Training. Otherwise these facilities will not be locked or switched by STEC or its member cooperatives.

10. Supplemental terms and conditions:
- Each Party will name and number their respective equipment.
  - Each Party shall be responsible for submitting the ICCP data to ERCOT for the equipment they own at this substation.
  - STEC will supply and allow the Corporation use of CT1 and CB238 bushing current transformers for the Corporations 69 kV bus differential relaying scheme.
  - STEC will supply and allow the Corporation use of CB11248 bushing current transformers for the Corporations 138 kV bus differential relaying scheme.
  - The Corporation will provide tripping and close inhibit contacts from the Corporations 69 kV bus differential & breaker failure relaying panel to STEC's CB238 relaying panel.
  - The Corporation will provide tripping and close inhibit contacts from the Corporations 138 kV bus differential & breaker failure relaying panel to STEC's CB11248 relaying panel.
  - STEC will provide breaker failure initiate contacts from its circuit breaker CB238 relaying panel to the Corporation's 69 kV bus differential & breaker failure relaying panel.
  - STEC will provide breaker failure initiate contacts from its circuit breaker CB11248 relaying panel to the Corporation's 138 kV bus differential & breaker failure relaying panel.
  - STEC and the Corporation shall design, provide, and coordinate their respective protection system equipment so that adjacent zones of protection overlap, in accordance with ERCOT Nodal Operating Guides.
  - STEC and the Corporation are to share access to the substation by each having their own locks in the gate and in the control house doors.
  - STEC is responsible for reporting to ERCOT all load data requests for STEC load served out of this substation.

