

Control Number: 35077



Item Number: 324

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Project No. 35077

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Amendment No. 4

INTERCONNECTION AGREEMENT

Between

Bandera Electric Cooperative, Inc.

and

LCRA Transmission Services Corporation

June 12, 2012

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AMENDMENT NO. 4 TO INTERCONNECTION AGREEMENT

This Amendment No. 4 ("Amendment") is made and entered into this <u>12</u> day of <u>10 ye</u> 2012, between the Bandera Electric Cooperative, Inc. ("BEC") and the LCRA Transmission Services Corporation ("LCRA TSC") collectively referred to hereinafter as the Parties.

WHEREAS, the LCRA TSC and the BEC entered into that certain Interconnection Agreement executed January 19, 2010, as amended by that certain Amendment No. 1 executed as of December 19, 2010, as amended by that certain Amendment No. 2 executed as of September 24, 2011, as amended by that certain Amendment No. 3 executed as of March 6, 2012 (collectively, as amended, the "Agreement");

WHEREAS, BEC and LCRA TSC have terminated the Facilities and Premises Lease and Operating Agreement between themselves; and

WHEREAS, BEC no longer leases its transformation related facilities to LCRA TSC at Cypress Creek, Leakey, Medina Lake, Pipe Creek, Turtle Creek, Welfare, Bandera, Mason Creek, Medina City, Tarpley and Utopia Substations and by such action no longer takes Wholesale Transformation Service from LCRA TSC at these locations:

NOW, THEREFORE, in consideration of the mutual promises and undertakings herein set forth, the Parties agree to amend the Agreement as follows:

1. Paragraph 2.3 of the Agreement is deleted in its entirety and replaced with the following:

"This Agreement, including all attached Facility Schedules, constitutes the entire agreement and understanding between the Parties with regard to the interconnection of the facilities of the Parties at the Points of Interconnection expressly provided for in this Agreement. The Parties are not bound by or liable for any statement, representation, promise, inducement, understanding, or undertaking of any kind or nature (whether written or oral) with regard to the subject matter hereof if not set forth or provided for herein. This Agreement replaces all other agreements and undertakings, oral and written, between the Parties with regard to the subject matter hereof. It is expressly acknowledged that the Parties may have other agreements covering other services not expressly provided for herein; such agreements are unaffected by this Agreement."

- 2. Paragraph 2.3 attached to this Amendment No. 4 is effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.
- 3. Exhibit "A" is deleted in its entirety and the Exhibit "A" attached to this Amendment No. 4 is hereby added to the Agreement in lieu thereof.
- 4. Exhibit "A" attached to this Amendment No. 4 is effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.

- 5. Facility Schedule No. 3 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 3 attached to this Amendment No. 4 is hereby added to the Agreement in lieu thereof.
- 6. Facility Schedule No. 3 (including the diagrams attached thereto) attached to this Amendment No. 4 is effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.
- 7. Facility Schedule No. 4 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 4 attached to this Amendment No. 4 is hereby added to the Agreement in lieu thereof.
- 8. Facility Schedule No. 4 (including the diagrams attached thereto) attached to this Amendment No. 4 is effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.
- 9. Facility Schedule No. 5 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 5 attached to this Amendment No. 4 is hereby added to the Agreement in lieu thereof.
- 10. Facility Schedule No. 5 (including the diagrams attached thereto) attached to this Amendment No. 4 is effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.
- 11. Facility Schedule No. 7 is deleted in its entirety and is marked as DELETED, effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.
- 12. Facility Schedule No. 8 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 8 attached to this Amendment No. 4 is hereby added to the Agreement in lieu thereof.
- 13. Facility Schedule No. 8 (including the diagrams attached thereto) attached to this Amendment No. 4 is effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.
- 14. Facility Schedule No. 10 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 10 attached to this Amendment No. 4 is hereby added to the Agreement in lieu thereof.
- 15. Facility Schedule No. 10 (including the diagrams attached thereto) attached to this Amendment No. 4 is effective as of March 8, 2012, thru execution of this Amendment No. 4 by the Parties.

16. Facility Schedules No. 11, 12, 13, 14, and 15 are deleted in their entirety and are marked as DELETED, effective as of March 8, 2012, thru execution of this Amendment No. 4 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 No. 4 to be executed in several counterparts, each of which shall be deemed an original but all shall constitute one and the same instrument.

BANDERA ELECTRIC COOPERATIVE, INC.	LCRA TRANSMISSION SERVICES CORPORATION
Ву:	By: Ray Steffel
Name: Brian D. Bartos, P.E.	Name: Ray Pfefferkorn, P.E.
Title: Manager, Engineering i Guratume	Title: LCRA Transmission Engineering
Date:	$\frac{\text{Manager}}{4/26/12}$

EXHIBIT A

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (kV)	EFFECTIVE DATE OF INTERCONNECTION
1	Boerne (8)	12.5/138 kV	1/10/2010
2	Boerne Cico (5)	12.5/24.9/138 kV	1/19/2010
3	Cypress Creek (1)	138 kV	9/24/2011
4	Leakey (1)	69 kV	March 8, 2012
5	Medina Lake (1)	138 kV	March 8, 2012
6	Menger Creek (6)	12.5 kV	March 8, 2012
7	Pipe Creek (0) (deleted)	12.5 KV	1/19/2010
8	Turtle Creek (1)	138 kV	March 8, 2012
9	Verde Creek (2)	138 kV	March 8, 2012
10	Welfare (2)		12/19/2010
11	Bandera (0) (deleted)	138 kV	March 8, 2012
12	Mason Creek (0) (deleted)		March 8, 2012
13	Medina City (0) (deleted)		March 8, 2012
14	Tarpley (0) (deleted)		March 8, 2012
15	Utopia (0) (deleted)		March 8, 2012
	Otopia (v) (deleted)		March 8, 2012

Amendment No. 4

- 1. Name: Cypress Creek Substation
- Facility Location: The Cypress Creek Substation is located at 18 Pankratz Rd., Comfort, Kendall County, Texas 78013.
- 3. Points of Interconnection: There is one (1) Point of Interconnection in the Cypress Creek Substation generally described as:
 - where BEC connector on the jumper from the 138 kV operating bus attaches to the tubular bus between switches 1436 and 1438.
- 4. Transformation Services Provided by LCRA TSC: No
- 5. Metering Services Provided by LCRA TSC: Yes
- 6. Delivery Voltage: 138 kV
- 7. Metered Voltage and Location: The metering voltage is 12.5 kV. The metering current transformers are located inside transformer PWT-1, T-1. The bus potential transformer is located on the PWT-1, T-1; 12.5 kV transformer bus.
- 8. One Line Diagram Attached: Yes
- 9. Description of Facilities Owned by Each Party:

BEC owns:

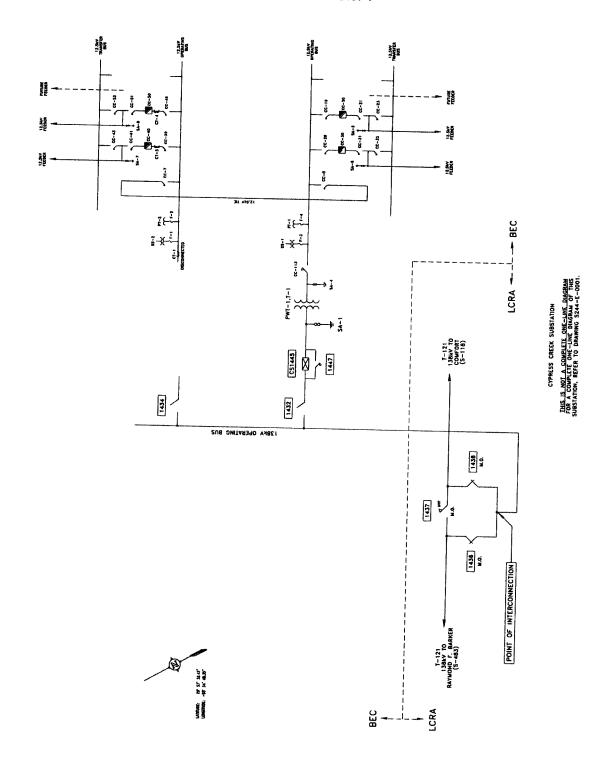
The Cypress Creek Substation including, but not limited to, the following items:

- Two (2) 138 kV switches 1434 and 1432
- 138 kV bus including structures, foundations and jumpers
- One (1) circuit switcher CS-1445 with associated bypass switch 1447
- One (1) power transformer PWT-1, T-1 and associated surge arresters
- All distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
- All distribution circuit breakers including jumpers, protective relay packages and foundations
- All distribution and total bays including A-frames, trusses, insulators, disconnect switches, surge arresters, operating and transfer buses, bus potential transformers, current transformers and associated cabling
- Control house and battery bank
- Two (2) station service SS-1 and SS-2

LCRA TSC owns:

- 138 kV dead-end structures, foundations, insulators and jumpers
- Three (3) 138 kV motor operated switch with interrupter MO-1436, MO-1437 and MO-1438
- 10. Operational Responsibilities of Each Party: Each Party is 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: BEC and LCRA TSC are to share access to the substation by LCRA TSC locks in the gate and in the control house doors.

CYPRESS CREEK ONE-LINE DIAGRAM



Amendment No. 4

- 1. Name: Leakey Substation
- 2. Facility Location: The Leakey Substation is located at 3143 S. US Hwy 83, Rio Frio, Real County, Texas 78879.
- 3. Points of Interconnection: There is one (1) Point of Interconnection in the Leakey Substation generally described as:
 - where the jumper from switch 332 on the 69 kV dead end structure attaches to the dead end insulator near switch 344 on the 69 kV box structure.
- 4. Transformation Services Provided by LCRA TSC: No
- 5. Metering Services Provided by LCRA TSC: Yes
- 6. Delivery Voltage: 69 kV
- 7. Metered Voltage and Location: The metering voltage is 12.5 kV and 24.9 kV. The metering current transformers for PWT-1, T-1 are located in the 12.5 kV transformer bus and in each distribution bay. The metering current transformer for PWT-2, T-2 is located in the 24.9 kV transformer bus. The bus potential transformers are located on the 12.5 kV operating bus and the 24.9 kV operating bus.
- 8. One Line Diagram Attached: Yes
- 9. Description of Facilities Owned by Each Party:

BEC owns:

The Leakey Substation including, but not limited to, the following items:

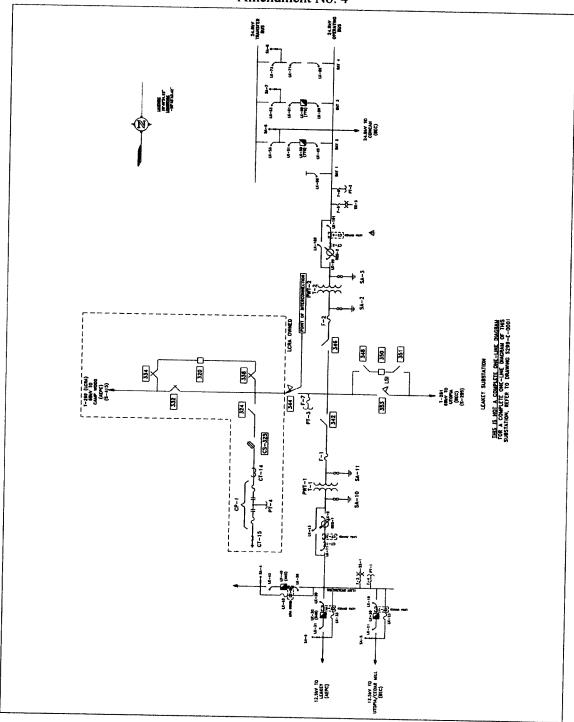
- Six (6) 69 kV switches 342, 344, 346, 348, 351, and 353
- One (1) 69 kV circuit breaker 350 including foundation, jumpers and protective relay packages
- Two (2) power transformer PWT-1, T-1; PWT-2, T-2 and associated surge arresters
- One (1) 69 kV bus potential transformer PT-3
- Two (2) totalizing current transformers CT-1 and CT-2
- Two (2) power fuses F-1 and F-2
- All distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
- All distribution circuit breakers including jumpers, protective relay packages and foundations
- All distribution and total bays including A-frames, trusses, insulators, disconnect

- switches, surge arresters, operating and transfer buses, bus potential transformers and associated cabling
- Six (6) single phase regulators REG-1 and REG-2 with associated disconnect and bypass switches
- Control house and battery bank
- Two (2) station service SS-1 and SS-2

LCRA TSC owns:

- The following transmission line comprised of conductors, insulators, and connecting hardware:
 - o Leakey to Camp Wood transmission line
- One (1) 69 kV A-frame dead-end structure, foundation, insulators and jumpers
- One (1) 69 kV bus suspension dead-end structure, foundation, insulators and jumpers
- Three (3) 69 kV switches 332, 334 and 338
- One (1) 69 kV circuit breaker 320 including foundation, jumpers and protective relay packages
- One (1) capacitor bank CP-1 including structures, foundations, insulators, fuses, and jumpers
- One (1) circuit switcher CS-325 with associated disconnect switch 324
- One (1) current transformer CT-14
- One (1) single phase current transformer CT-15
- One (1) capacitor bank potential transformer PT-4
- One (1) capacitor bank control panel
- Five (5) current metering transformers CT-3, CT-4, CT-5, CT-6 and CT-7
- 10. Operational Responsibilities of Each Party: Each Party is 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: BEC and LCRA TSC are to share access to the substation by LCRA TSC locks in the gate and in the control house doors.

LEAKEY ONE-LINE DIAGRAM



Amendment No. 4

- 1. Name: Medina Lake Substation
- Facility Location: The Medina Lake Substation is located at 8843 FM 1283, Pipe Creek, Medina County, Texas 78063.
- 3. Points of Interconnection: There are one (1) Point of Interconnection in the Medina Lake Substation generally described as:
 - where the jumper attaches to the four hole pad on switch 21928
- 4. Transformation Services Provided by LCRA TSC: No
- 5. Metering Services Provided by LCRA TSC: Yes
- 6. Delivery Voltage: 12.5 kV
- 7. Metered Voltage and Location: The metering voltage is 12.5 kV. The metering current transformers are located in the total bay for PWT-1, T-1 and inside PWT-2, T-2. The bus potential transformers are located on both of the 12.5 kV operating buses.
- 8. One Line Diagram Attached: Yes
- Description of Facilities Owned by Each Party:

BEC owns:

The Medina Lake Substation including, but not limited to, the following items:

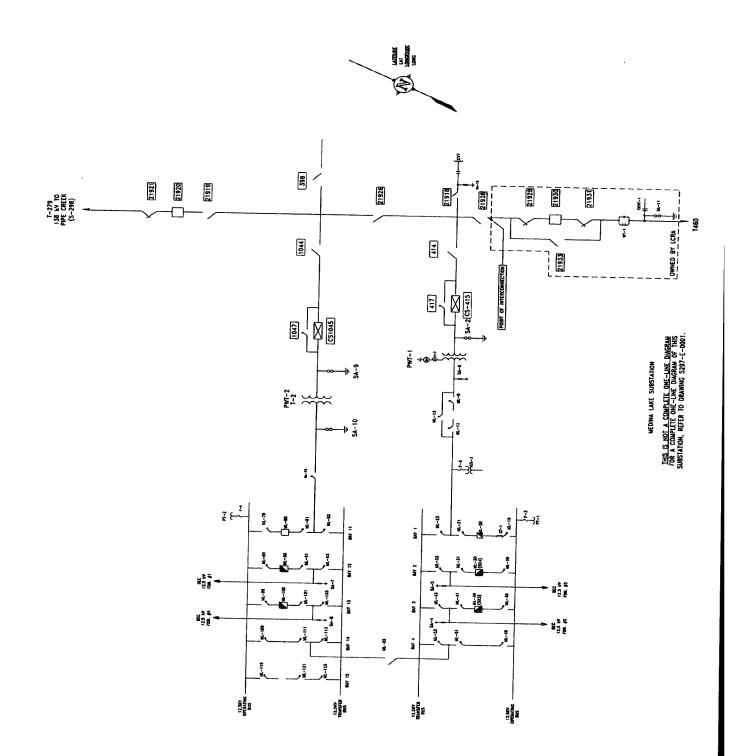
- The following transmission line comprised of conductors, insulators, and connecting hardware:
 - o Medina Lake to Pipe Creek transmission line
- One (1) 138 kV dead-end structures, foundation, insulators and jumpers
- One (1) 138 kV circuit breaker 21920 including jumpers and protective relay packages
- Eight (8) 138 kV switches 21918, 21919, 21921, 21926, 21928, 414, 1044 and 398
- One (1) 138 kV surge arrester SA-12
- One (1) CVT
- One 1) station service transformer and associated fuse
- 138 kV bus including structures, foundations and jumpers
- Two (2) circuit switchers CS-1045 and CS-415 with associated bypass switches 1047 and 417
- Two (2) power transformer PWT-1, T-1; PWT-2, T-2 and associated surge arresters

- One (1) single phase current transformer CT-7
- All distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
- All distribution circuit breakers including jumpers, protective relay packages and foundations
- Two (2) total breakers ML-20 and ML-80 including jumpers, protective relay packages and foundations
- All distribution and total bays including A-frames, trusses, insulators, disconnect switches, surge arresters, operating and transfer buses, bus potential transformers, current transformer CT-1 and associated cabling
- 12.5 kV transformer bus disconnect switches
- Control house
- Battery bank and charger

LCRA TSC owns:

- The following transmission line comprised of conductors, insulators, and connecting hardware:
 - o Medina Lake to CPS Tie transmission line
- One (1) 138 kV dead-end structures, foundation, insulators and jumpers
- One (1) 138 kV circuit breaker 21930 including jumpers and protective relay packages
- Three (3) 138 kV switches 21929, 21931 and 21933
- One (1) wave trap WT-1
- One (1) CCVT, CCVT-1
- One (1) 138 kV surge arrester SA-11
- 10. Operational Responsibilities of Each Party: Each Party is 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: BEC and LCRA TSC are to share access to the substation by LCRA TSC locks in the gate and in the control house doors.

MEDINA LAKE ONE-LINE DIAGRAM



Amendment No. 4

1. Name: Pipe Creek Substation - DELETED

Amendment No. 4

- 1. Name: Turtle Creek Substation
- Facility Location: The Turtle Creek Substation is located at 111 FM 1273, Kerrville, Kerr County, Texas 78028.
- 3. **Points of Interconnection:** There is one (1) Point of Interconnection in the Turtle Creek Substation generally described as:
 - where the jumper from the circuit switcher CS8835 bolts to the four hole pad on switch 8834.
- 4. Transformation Services Provided by LCRA TSC: No
- 5. Metering Services Provided by LCRA TSC: Yes
- 6. Delivery Voltage: 138 kV
- 7. Metered Voltage and Location: The metering voltage is 24.9 kV. The metering current transformer is located inside PWT-1, T-1. The bus potential transformer is located on the 24.9 kV operating bus.
- 8. One Line Diagram Attached: Yes
- 9. Description of Facilities Owned by Each Party:

BEC owns:

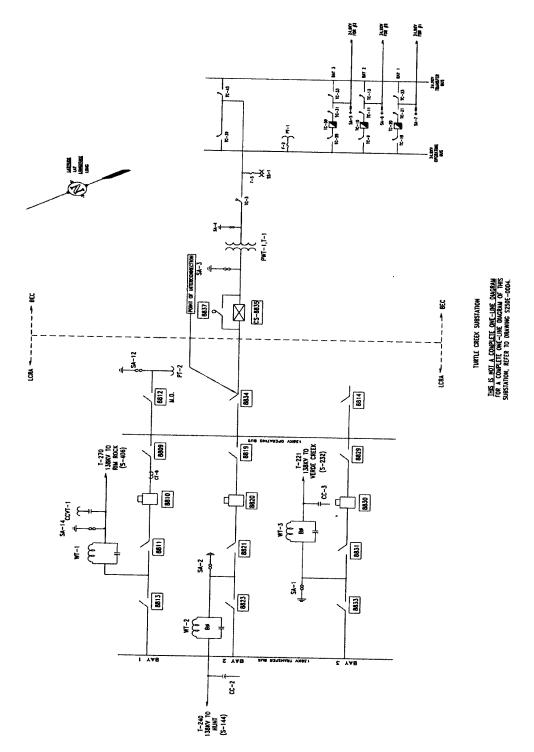
The Turtle Creek Substation including, but not limited to, the following items:

- One (1) circuit switcher CS-8835 with associated bypass switch 8837
- One (1) power transformer PWT-1, T-1 and associated surge arresters
- All distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
- All distribution circuit breakers including jumpers, protective relay packages and foundations.
- All distribution and total bays including A-frames, trusses, insulators, disconnect switches, surge arresters, 24.9 kV operating and transfer bus, bus potential transformer and associated cabling
- Station service

LCRA TSC owns:

- 138 kV dead-end structures, foundations, insulators and jumpers
- Three (3) 138 kV circuit breakers 8810, 8820 and 8830 including jumpers and protective relay packages
- 138kV operating and transfer bus including structures, foundations and jumpers
- Eleven (11) 138 kV switches 8809, 8811, 8813, 8814, 8819, 8821, 8823, 8829, 8831, 8833 and 8834
- One (1) 138 kV motor operated switch 8812
- Four (4) surge arresters SA-1, SA-2, SA-12 and SA-14
- Two (2) coupling capacitors CC-2 and CC-3
- One (1) CCVT, CCVT-1
- One (1) relaying current transformer CT-6
- Three (3) wave traps and tuners WT-1, WT-2 and WT-3
- One (1) bus potential transformer PT-2
- 138 kV bus including structures, foundations and jumpers
- Control house and battery
- Underfrequency relay panel
- 10. Operational Responsibilities of Each Party: Each Party is 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: BEC and LCRA TSC are to share access to the substation by LCRA TSC locks in the gate and in the control house doors.

TURTLE CREEK ONE-LINE DIAGRAM



LCRA TSC - Bandera Electric Cooperative-Amendment No. 4

Amendment No. 4

- 1. Name: Welfare Substation
- 2. Facility Location: The Welfare Substation is located at 4554 Forest Trail Dr., Boerne, Kendall County, Texas 78006.
- 3. Points of Interconnection: There are two (2) Points of Interconnection in the Welfare Substation generally described as:
 - where the jumper from the 138 kV operating bus bolts to the 4 hole pad on switch 9674.
 - where the jumper from the 138 kV operating bus bolts to the 4 hole pad on switch 9684.
- 4. Transformation Services Provided by LCRA TSC: No
- Metering Services Provided by LCRA TSC: Yes
- 6. Delivery Voltage: 138 kV
- 7. Metered Voltage and Location: The metering voltage is 12.5 kV. The metering current transformers are located in the total bays for PWT-1, T-1 and PWT-2, T-2. The bus potential transformers are located on both 12.5 kV operating buses.
- 8. One Line Diagram Attached: Yes
- 9. Description of Facilities Owned by Each Party:

BEC owns:

The Welfare Substation including, but not limited to, the following items:

- Two (2) circuit switchers CS-9675 and CS-9685 with associated bypass switches 9676, 9686 and disconnect switches 9674, 9684
- Two (2) power transformers PWT-1, T-1 and PWT-2, T-2 and associated surge arresters
- All distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
- All distribution circuit breakers including jumpers, protective relay packages and foundations.
- All distribution and total bays including A-frames, trusses, insulators, disconnect switches, surge arresters, 12.5 kV operating and transfer bus, bus potential transformers and associated cabling
- Two (2) metering current transformers CT-1 and CT-3
- Control house and battery bank
- Two (2) station service SS-1 and SS-2
- Six (6) single phase regulators REG-1 and REG-2 with associated surge arresters,

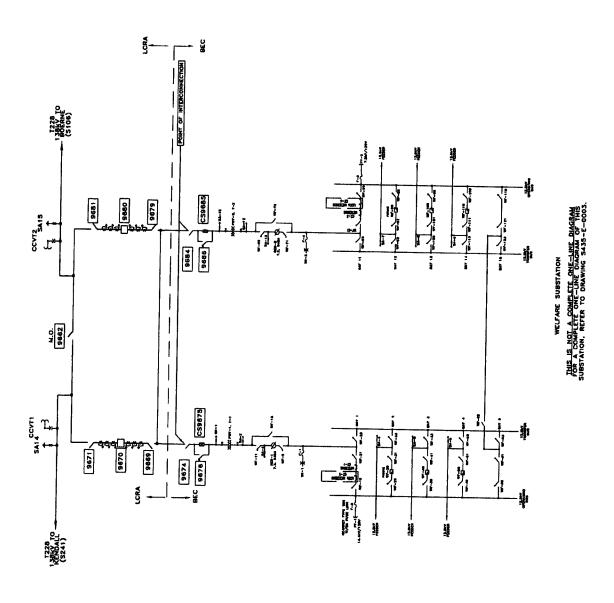
disconnect switches and bypass switches

LCRA TSC owns:

- 138 kV dead-end structures, foundations, insulators and jumpers
- 138 kV bus including structures, foundations and jumpers
- Two (2) 138 kV circuit breakers 9670 and 9680 including foundations, jumpers and protective relay panels
- Two (2) 138 kV surge arresters SA14 and SA15
- Two (2) coupline capacitor voltage transformers CCVT1 and CCVT2
- One (1) 138 kV motor operated switch with interrupter MO-9662
- Two (2) metering current transformers CT-2 and CT-4
- 10. Operational Responsibilities of Each Party: Each Party is 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: BEC and LCRA TSC are to share access to the substation by LCRA TSC locks in the gate and in the control house doors.

WELFARE ONE-LINE DIAGRAM





Amendment No. 4

1. Name: Bandera Substation - DELETED

FACILITY SCHEDULE NO. 12 Amendment No. 4

1. Name: Mason Creek Substation - DELETED

Amendment No. 4

1. Name: Medina City Substation - DELETED

Amendment No. 4

1. Name: Tarpley Substation - DELETED

Amendment No. 4

1. Name: Utopia Substation - DELETED