Control Number: 35077

Item Number: 225

Addendum StartPage: 0

Project No. 35077

First Amendment to

INTERCONNECTION AGREEMENT
Between

Pedernales Electric Cooperative, Inc.

and

LCRA Transmission Services Company

April 7, 2011

FIRST AMENDMENT TO
INTERCONNECTION AGREEMENT

This First Amendment ("Amendment") is made and entered into this 6th day of April, 2011, between the Pedernales Electric Cooperative, Inc. ("PEC") and the LCRA Transmission Services Corporation ("LCRA TSC") collectively referred to hereinafter as the Parties.

WHEREAS, the LCRA TSC and the PEC entered into that certain Interconnect Agreement executed April 12, 2010; and

WHEREAS, the LCRA TSC will install one 138kV, 40kAIC Circuit Breaker in the ring and extend the 138kV Operating Bus in the Avery Ranch Substation in order to facilitate the expansion by PEC to add an additional 138 kV PWT/T-3, and;

WHEREAS, the LCRA TSC meter panel 28 was moved to panel 29 at Cedar Valley Substation, and;

WHEREAS, PEC CT-4 and MTU1 were added and PJ-20 removed at Phillips Johnson City Substation, and;

WHEREAS, ownership of switch 21978 was incorrectly assigned and additional equipment was added at Buckner boys Ranch Substation, and;

WHEREAS, the layout of T-2 and circuit switcher CS9715 at Turnersville Substation changed from the original design and was not caught prior to the execution of the initial Interconnection Agreement

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" is deleted in its entirety and the Exhibit "A" attached to this First Amendment is hereby added to the Agreement in lieu thereof.

2. Facility Schedule No. 3 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 3 attached to this First Amendment is hereby added to the Agreement in lieu thereof.

3. Facility Schedule No. 3 (including the diagrams attached thereto) attached to this First Amendment will become effective upon execution of this First Amendment by the Parties.

4. Facility Schedule No. 31 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No. 31 attached to this First Amendment is hereby added to the Agreement in lieu thereof.

5. Facility Schedule No. 31 (including the diagrams attached thereto) attached to this First Amendment will become effective upon execution of this First Amendment by the Parties.

6. Facility Schedule No. 37 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No.37 attached to this First Amendment is hereby added to the Agreement in lieu thereof.

7. Facility Schedule No. 37 (including the diagrams attached thereto) attached to this First Amendment will become effective upon execution of this First Amendment by the Parties.

8. Facility Schedule No. 42 (including the diagrams attached thereto) is deleted in its entirety and Facility Schedule No.42 attached to this First Amendment is hereby added to the Agreement in lieu thereof.

9. Facility Schedule No. 42 (including the diagrams attached thereto) attached to this First Amendment will become effective upon execution of this First Amendment by the Parties.

10. The Cedar Valley Substation section 6 of the MLS is deleted in its entirety and Cedar Valley Substation MLS Section 6 attached to this First Amendment is hereby added to the Agreement in lieu thereof.

11. Cedar Valley Substation MLS Section 6 attached to this First Amendment will become effective upon execution of this First 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 First Amendment to be executed in several counterparts, each of which shall be deemed an original but all shall constitute one and the same instrument.

PEDERNALES ELECTRIC COOPERATIVE, INC.

By: _____

Name: RB Sloan

Title: Chief Executive Officer

Date: 3/22/11

LCRA TRANSMISSION SERVICES CORPORATION

By: _____

Name: Ray Pfeffenkorn, P.E.

Title: LCRA Transmission Engineering Manager

Date: 4/6/11

LEGAL SERVICES ANH

LCRA LEGAL

EXHIBIT A
First Amendment

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (KV)	EFFECTIVE DATE OF INTERCONNECTION
1	Andice (2)	138 kV	April 12, 2010
2	Antler (2)	138 kV	April 12, 2010
3	Avery Ranch (3)	138 kV	Date of 1st Amendment
4	Bee Creek (2)	138 kV	April 12, 2010
5	Bergheim (4)	138 kV	April 12, 2010
6	Buda Split (1)	138 kV	April 12, 2010
7	Burnet (4)	12.5/69/138 kV	April 12, 2010
8	Buttercup (2)	138 kV	April 12, 2010
9	Camp Gary (9)	12.5 kV	April 12, 2010
10	Canyon (1)	138 kV	April 12, 2010
11	Copperas Cove (1)	138 kV	April 12, 2010
12	E. Babe Smith (1)	138 kV	April 12, 2010
13	Escarpment (2)	138 kV	April 12, 2010
14	Fairland (2)	138 kV	April 12, 2010
15	Fairoaks (2)	138 kV	April 12, 2010
16	Friendship (2)	138 kV	April 12, 2010
17	Gabriel (1)	138 kV	April 12, 2010
18	Glasscock (9)	24.9 kV	April 12, 2010
19	Goforth (2)	138 kV	April 12, 2010
20	Granite Mountain (2)	138 kV	April 12, 2010
21	Graphite Mine (1)	138 kV	April 12, 2010
22	Horseshoe Bay (2)	138 kV	April 12, 2010
23	Inks Dam (4)	12.5 kV	April 12, 2010
24	Lago Vista (4)	138 kV	April 12, 2010
25	Lakeway (1)	138 kV	April 12, 2010
26	Manchaca (2)	138 kV	April 12, 2010
27	Marshall Ford (6)	138 kV	April 12, 2010
28	Mc Carty Lane East (3)	138 kV	April 12, 2010
29	Miller Creek (1)	138 kV	April 12, 2010
30	Mountain Top (4)	138 kV	April 12, 2010
31	Phillips Johnson City (3)	12.5 kV	Date of 1st Amendment
32	River Oaks (1)	138 kV	April 12, 2010
33	Rohr (1)	138 kV	April 12, 2010
34	Segovia (1)	69 kV	April 12, 2010
35	Sherwood Shores (2)	138 kV	April 12, 2010
36	Spicewood (2)	138 kV	April 12, 2010

EXHIBIT A
First Amendment
(continued)

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (KV)	EFFECTIVE DATE OF INTERCONNECTION
37	Turnersville (4)	138 kV	Date of 1st Amendment
38	Wirtz (6)	69/138 kV	April 12, 2010
39	Kent Street (1)	138 kV	April 12, 2010
40	Starcke (1)	138 kV	April 12, 2010
41	Dobyville (1)	138 kV	April 12, 2010
42	Buckner Boys Ranch (1)	138 kV	Date of 1st Amendment
MLS	N/A		April 12, 2010
MLS Section 6	N/A		Date of 1st Amendment
MSL Section 27	N/A		Date of 1st Amendment

FACILITY SCHEDULE NO. 3
Amendment No. 1

1. **Name:** Avery Ranch Substation **(LCRA)**

2. **Facility Location:** The Avery Ranch Substation is located at 14125½ Avery Ranch Blvd., Austin, Williamson County, Texas 78717.

3. **Points of Interconnection:** There are three (3) Points of Interconnection in the Avery Ranch Substation generally described as:

   - where the jumper from switch 10864 attaches to the dead end insulator on the a-frame structure.
   - where the jumper from switch 10854 attaches to the dead end insulator on the a-frame structure.
   - where the 138kV bus expansion connector bolts to the four hole pad on switch 10924

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 transformers are located inside T-1, T-2 and T-3. The bus potential transformers are located on the three (3) 24.9 kV operating buses.

8. **One Line Diagram Attached:** Yes

9. **Description of Facilities Owned by Each Party:**

   PEC owns:
   - Three (3) 138kV circuit switchers CS-10855, CS-10865 and CS-10925 with associated disconnect and bypass switches 10854, 10864, 10857, 10867, 10924 and 10927
   - Three (3) power transformers T-1, T-2 and T-3 with associated surge arresters
   - Three (3) 24.9 kV metering current transformers CT-1, CT-2 and CT-3 (internal to T-1, T-2 and T-3)
   - 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, T-1, T-2 and T-3, 24.9 kV operating and transfer buses and associated cabling

- Three (3) modulation transformers MTU-1, MTU-2 and MTU-3 with associated surge arresters, fused disconnect switches and OMU units
- Two (2) 24.9 kV station service SS-1 and SS-2 with fused disconnect switches
- Three (3) 24.9 kV bus potential transformers PT-1, PT-2 and PT-3 with associated fused disconnect switches

LCRA TSC owns:

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

- 138 kV dead-end structures, foundations, insulators and jumpers
- 138 kV operating bus #1 and #2 including structures, insulators, foundations and jumpers
- Seven (7) 138 kV circuit breakers 10850, 10860, 10870, 10880, 10890, 10900, and 10910 including foundation, jumpers and protective relay packages
- Eighteen (18) 138 kV switches 10849, 10851, 10859, 10861, 10862, 10869, 10871, 10876, 10879, 10881, 10882, 10889, 10891, 10899 , 10909, 10911, 10921, and 10931
- Three (3) 138 kV coupling capacitor voltage transformers CCVT-1, CCVT-2 and CCVT-3
- One (1) 138 kV wave trap and tuner WT-2
- Two (2) 138 kV surge arresters SA-1 and SA-2
- One (1) 138 kV capacitor bank CP-1
- One (1) 138 kV capacitor bank 69 kV potential transformer PT-3
- One (1) 15 kV single phase current transformer CT-1
- Control house and battery bank

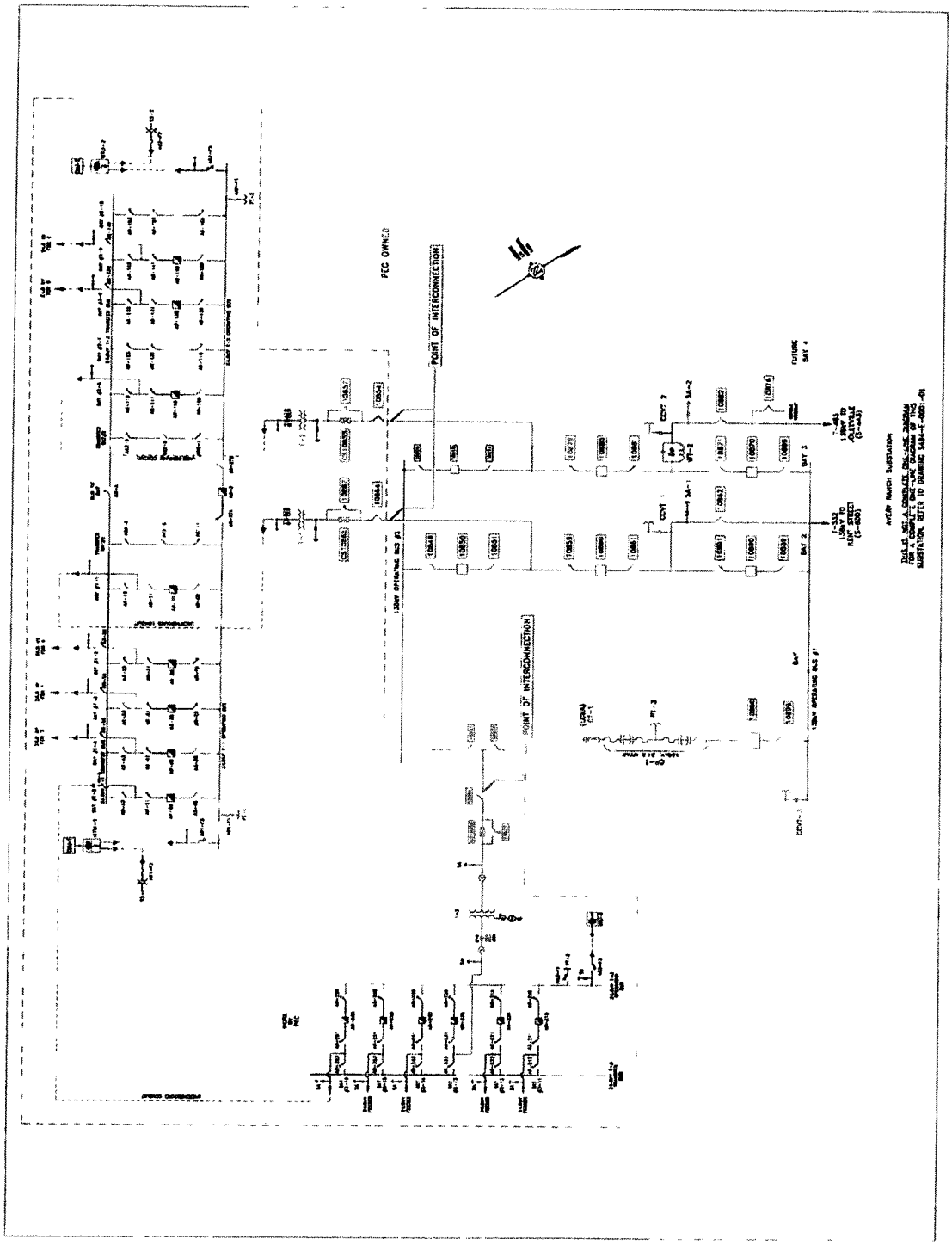
10. **Operational Responsibilities of Each Party:** Each Party is responsible for the operation of the equipment it owns.

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:** PEC and LCRA TSC are to share access to the substation by PEC and LCRA TSC locks in the substation entrance gate; along with control house owner's locks on the control house doors.

AVERY RANCH ONE-LINE DIAGRAM

First Amendment



FACILITY SCHEDULE NO. 31
First Amendment

1. **Name:** Phillips Johnson City Substation **(LCRA/Phillips Petroleum)**

2. **Facility Location:** The Phillips Johnson City Substation is located at 1209 Pedernales Falls Rd., Johnson City, Blanco County, Texas 78636.

3. **Points of Interconnection:** There are three (3) Points of Interconnection in the Phillips Johnson City Substation generally described as:

   - where the incoming distribution line connects to the tubular bus between switches PJ-11 and PJ-13 at breaker PJ-10.
   - where the jumper from breaker PJ-10 connects to the 4 hole pad on switch PJ-09.
   - where the jumper from breaker PJ-10 connects to the 4 hole pad on switch PJ-11.

4. **Transformation Services Provided by LCRA TSC:** Yes

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 transformer is located in the 12.5 kV total bay. The bus potential transformer is located on the 12.5 kV operating bus.

8. **One Line Diagram Attached:** Yes

9. **Description of Facilities Owned by Each Party:**
   PEC owns:
   - Two (2) distribution circuit bays including dead end insulators that attach to the dead end structure, conductors, and hardware
   - One (1) distribution circuit breaker PJ-10 including foundation, jumpers, protective relay package and surge arresters
   - One (1) MTU, MTU1 with surge arrester and fused disconnect PJ1F4
   - One (1) metering current transformer CT-4

   Phillips Petroleum owns:
   - Substation property
   - Station service SS-2 with fuse F-4 (not shown on one-line)
   - One (1) surge arrester SA-2 (not shown on one-line)
   - One (1) low voltage switch PJ-15 (not shown on one-line)

   LCRA TSC owns:

The Phillips Johnson City Substation property is leased from Phillips Petroleum Company by LCRA TSC.
LCRA TSC owns the Phillips Johnson City Substation including, but not limited to, the following items:

- 138 kV dead-end structures, foundations, insulators and jumpers
- Three (3) 138 kV switches 3426, 3432 and 3448
- One (1) Transrupter TR3435
- One (1) power transformer T-1 with associated surge arresters
- All distribution and total bays including A-frames, trusses, insulators, disconnect switches, 12.5 kV operating and transfer bus, and associated cabling
- One (1) 12.5 kV metering current transformer CT-2
- One (1)single phase neutral current transformer CT-3
- One (1) 12.5 kV bus potential transformer PT-1 with associated fused disconnect switch
- One (1) Station service SS-1 with associated fused disconnect switch
- Control house (12' x 21')

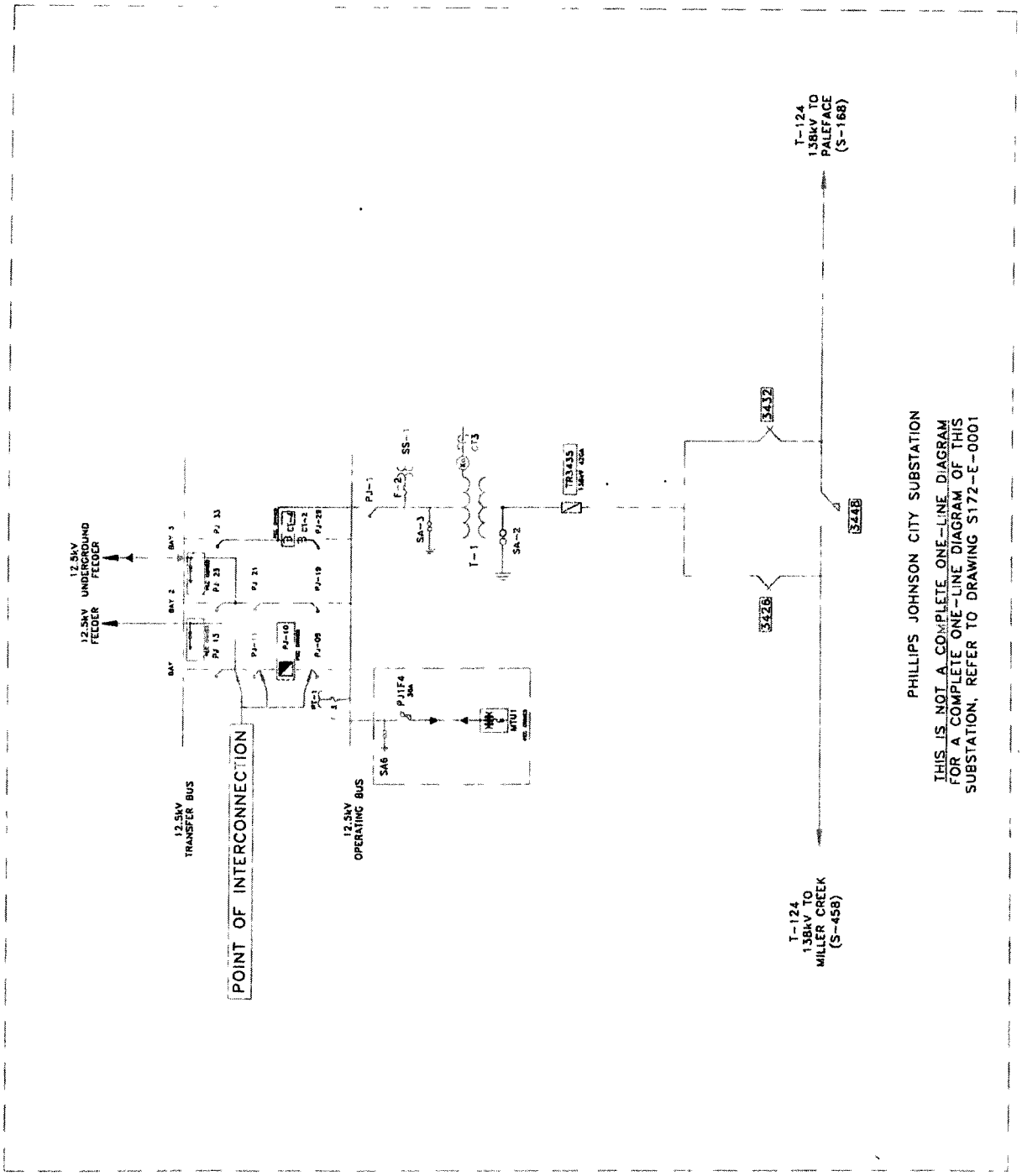
10. **Operational Responsibilities of Each Party:** Each Party is responsible for the operation of the equipment it owns.

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:** PEC and LCRA TSC are to share access to the substation by PEC and LCRA TSC locks in the substation entrance gate; along with control house owner's locks on the control house doors.

PHILLIPS JOHNSON CITY ONE-LINE DIAGRAM

First Amendment



FACILITY SCHEDULE NO. 37
First Amendment

1. **Name:** Turnersville Substation **(LCRA)**

2. **Facility Location:** The Turnersville Substation is located at 1789 S. Turnersville Rd., Buda, Hays County, Texas 78610.

3. **Points of Interconnection:** There are four (4) Points of Interconnection in the Turnersville Substation generally described as:

   - where the jumper from the 138 kV operating bus bolts to the 4 hole pad on switch 9704.
   - where the jumper from the 138 kV transfer bus bolts to the 4 hole pad on switch 9706.
   - where the jumper from the 138 kV operating bus bolts to the 4 hole pad on switch 9714.
   - where the jumper from the 138 kV transfer bus bolts to the 4 hole pad on switch 9716.

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 transformers are located inside transformers T-1 and T-2. The bus potential transformers are located on the 24.9 kV operating buses.

8. **One Line Diagram Attached:** Yes

9. **Description of Facilities Owned by Each Party:**
   PEC owns:
   - 138 kV dead-end structure, foundation, insulators and jumpers (2-A-frames and trusses, foundations and insulators in bay #3 and #4)
   - A-frames structures, foundations, insulators and jumpers over transformers T-1 and T-2
   - Two (2) 138 kV circuit switchers CS-9705 and CS-9715 with associated disconnect and bypass switches 9704, 9706, 9707, 9708, 9714, 9716, and 9717
   - Two (2) power transformers T-1 and T-2 with associated surge arresters
   - All distribution circuits including dead end insulators that attach to the dead end structure, conductors, and hardware
   - All distribution and total 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 buses and associated cabling
- Two (2) modulation transformers MTU-1 and MTU-2 with associated surge arresters, fused disconnect switches and OMU units
- Two (2) 24.9 kV bus potential transformers PT-3 and PT-4 with fused disconnect switches
- Two (2) 24.9 kV station service SS-2 and SS-3 with associated fused disconnect switches

LCRA TSC owns:

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

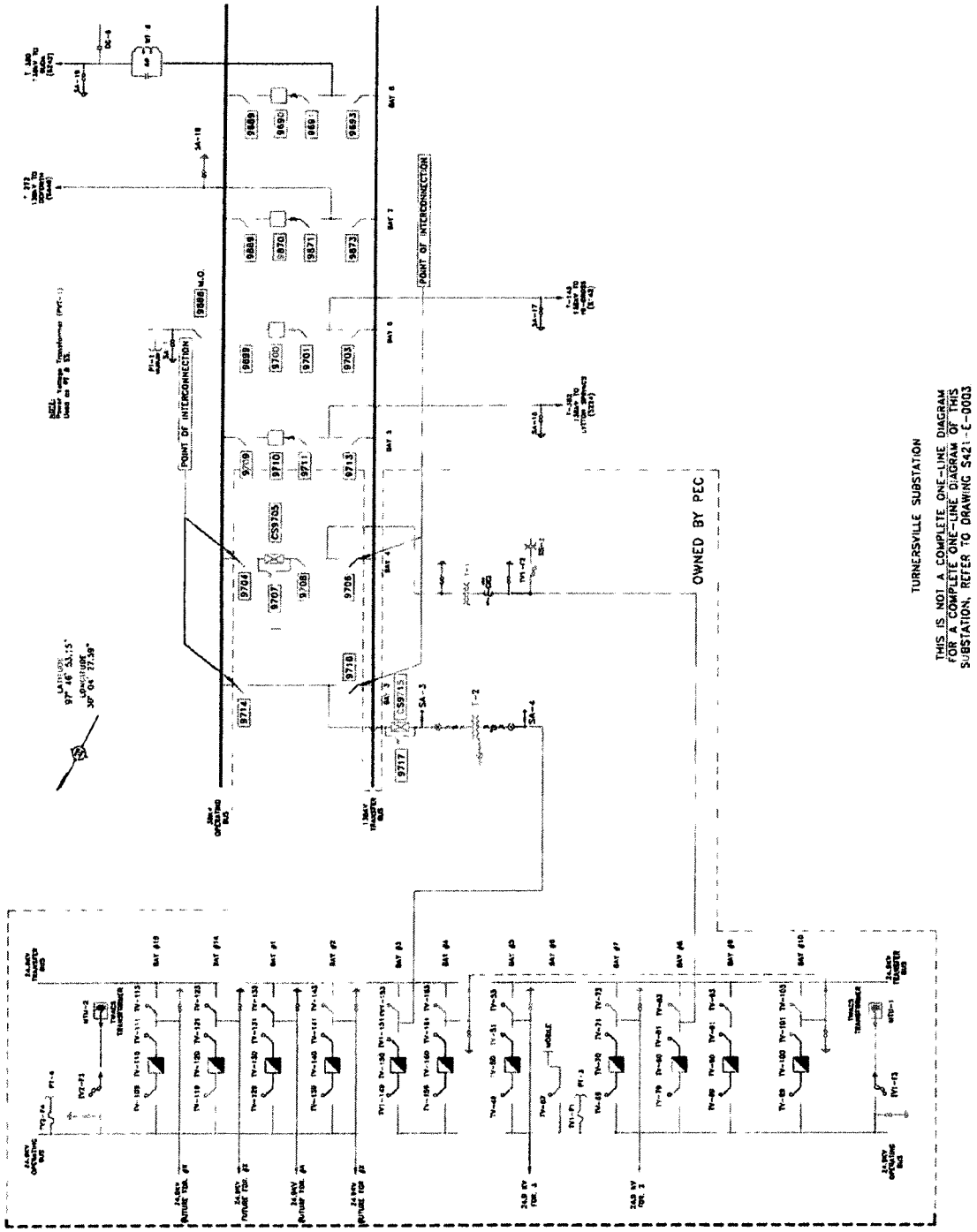
- 138 kV dead-end structures, foundations, insulators and jumpers (except 2-A frames and trusses, foundations and insulators in bay #3 and #4)
- 138 kV operating and transfer bus including structures, insulators, foundations and jumpers
- Four (4) 138 kV circuit breakers 9710, 9700, 9870, and 9690 including foundation, jumpers and protective relay packages
- Twelve (12) 138 kV switches 9709, 9711, 9713, 9699, 9701, 9703, 9869, 9871, 9873, 9689, 9691 and 9693
- One (1) 138 kV motor operated switch MO-9688
- One (1) 138 kV wave trap WT-6
- One (1) 138 kV coupling capacitor CC-6
- One (1) 138 kV bus potential transformer PT-1
- One (1) 138 kV surge arrester SA-1
- Control house and battery

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:** PEC and LCRA TSC are to share access to the substation by PEC and LCRA TSC locks in the substation entrance gate; along with control house owner's locks on the control house doors.

TURNERSVILLE ONE-LINE DIAGRAM



FACILITY SCHEDULE NO. 42
First Amendment

1. **Name:** Buckner Boys Ranch Substation

2. **Facility Location:** The Buckner Boys Ranch Substation is located at 391 County Road 134, Burnet, Burnet County, TX 78611

3. **Points of Interconnection:** There are is (1) Point of Interconnection in the Buckner Boys Ranch Substation generally described as:

   - where the jumper from switch 21974 bolts to the four (4) hole pad on the 138 kV operating bus.

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 transformer is located inside T-1. The bus potential transformer is located on the 12.5 kV operating bus.

8. **One Line Diagram Attached:** Yes

9. **Description of Facilities Owned by Each Party:**
   PEC owns:
   - One (1) 138 kV circuit switcher CS-21975 with associated disconnect switch 21974 and bypass switch 21977
   - One (1) 138 kV disconnect switch 21978
   - One (1) power transformer T-1 with associated surge arresters
   - One (1) metering current transformer CT-1 (internal to transformer T-1)
   - 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 and associated cabling
   - One (1) 12.5 kV bus potential transformer PT-1 with associated fused disconnect switch
   - Two (2) 12.5 kV station service SS-1and SS-2 with associated fused disconnect switch
   - One (1) MTU with OMU, MTU-1 with associated fused disconnect and surge arrester.

LCRA TSC owns:

The Buckner Boys Ranch Substation including, but not limited to, the following items:

- Two (2) 138 kV dead-end structures, foundations, insulators and jumpers
- 138 kV bus including support structures, foundations and jumpers
- One (1) 138 kV switches 21969
- Two (2) 138 kV motor operated switches MO-21972 and MO-21982 including interrupters, foundation, stand and jumpers
- Control house (24' X 42')
- Batteries and battery charger

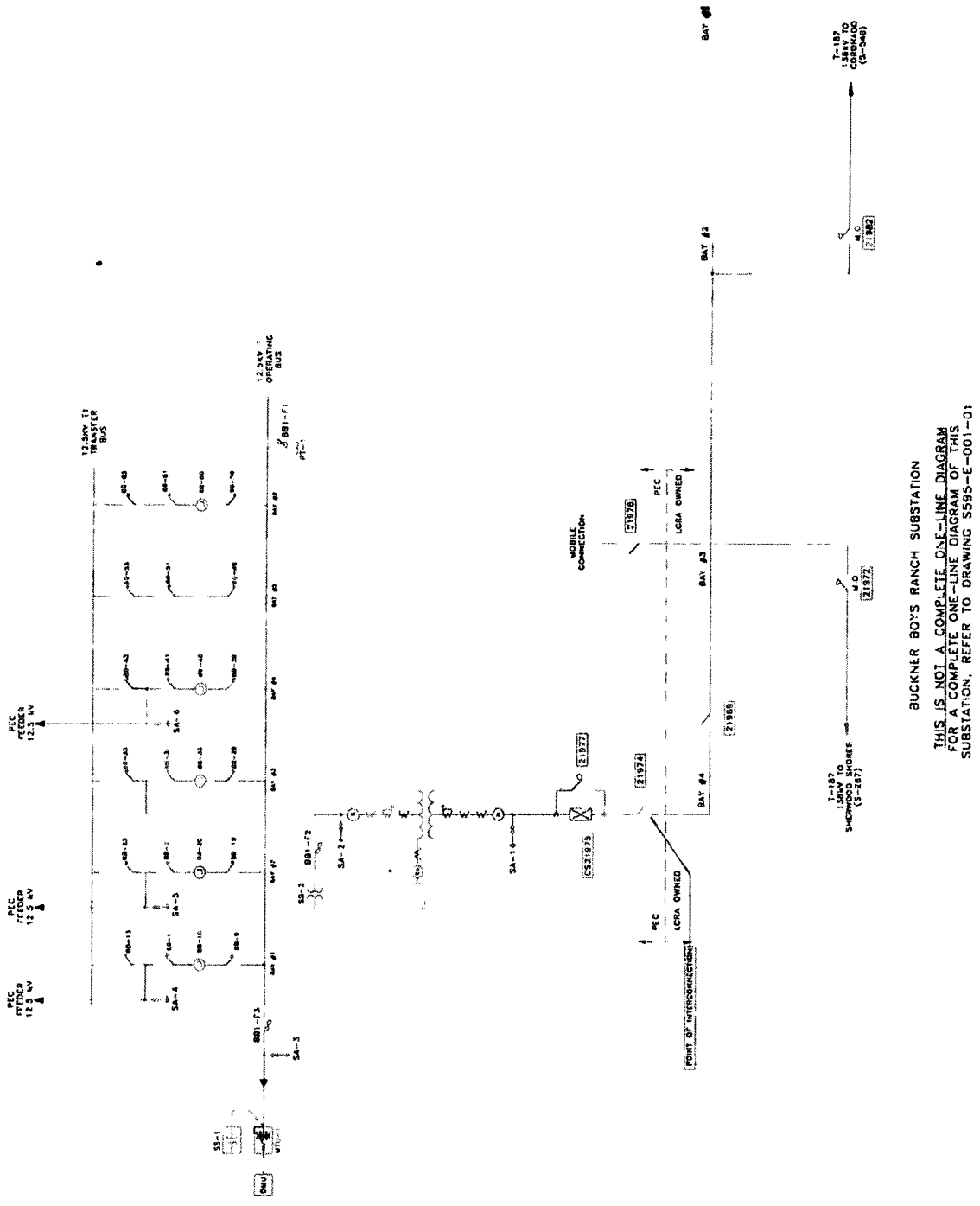
10. **Operational Responsibilities of Each Party:** Each Party is responsible for the operation of the equipment it owns.

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:** PEC and LCRA TSC are to share access to the substation by PEC and LCRA TSC locks in the substation entrance gate and in; along with control house owner's locks on the control house doors.

BUCKNER BOYS RANCH SUBSTATION

First Amendment



METERING LOCATION SCHEDULE
Amendment No. 1

6. **Cedar Valley Substation (S-338)**

a. PEC owns the Cedar Valley Substation, the following metering equipment, and all other equipment therein except for the equipment listed as being owned by LCRA TSC.

- Two (2) metering current transformers internal to transformer T-1 and T-2

b. LCRA TSC owns:

- One (1) meter panel, Panel 29
- One (1) Novatech Orion RTU panel 30

27. **Rocksprings Substation (S-438)**

a. PEC owns the Rocksprings Substation, the following metering equipment, and all other equipment therein except for the equipment listed as being owned by LCRA TSC.

- Current transformers used for LCRA metering on PEC total breaker RS10.

b. LCRA TSC owns:

- Metering panel, Panel 13