Control Number: 35077

Item Number: 128

Addendum StartPage: 0

PUC Project No. 35077

Amendment No. 1 to the

INTERCONNECTION AGREEMENT

Between

AEP Texas Central Company

and

LCRA Transmission Services Corporation

March 16, 2007

128

AMENDMENT NO. 1 TO THE
INTERCONNECTION AGREEMENT
BETWEEN
AEP TEXAS CENTRAL COMPANY
AND
LCRA TRANSMISSION SERVICES CORPORATION

This Amendment No. 1 ("this Amendment") to the Interconnection Agreement between AEP Texas Central Company and LCRA Transmission Services Corporation ("the Interconnection Agreement") is made and entered into this 16th day of March, 2007, by and between AEP Texas Central Company and LCRA Transmission Services Corporation, each being referred to as a "Party" and both collectively referred to as the "Parties".

WITNESSETH:

WHEREAS, the Parties entered into the Interconnection Agreement on January 11, 2005 (including all Exhibits and Facility Schedules attached thereto) to restate and amend an earlier interconnection agreement between Central Power and Light Company (now known as AEP Texas Central Company ("AEP")) and the Lower Colorado River Authority (the assignor to LCRA Transmission Services Corporation ("LCRA")); and

WHEREAS, the Interconnection Agreement provides terms and conditions that allow a point of interconnection be added to or deleted from the Interconnection Agreement as mutually agreed by the Parties, whereby such addition or deletion be recorded in Exhibit A and a Facility Schedule be added or deleted in such a way that the numbering of the other Facility Schedules in the Interconnection Agreement is not changed; and

WHEREAS, the Parties have agreed to amend the Interconnection Agreement in accordance with its terms and conditions;

NOW, THEREFORE, in consideration of the foregoing premises and the mutual covenants set forth herein, the Parties agree as follows:

I. CAPITALIZED TERMS

Capitalized terms used but not otherwise defined herein shall have the meanings specified in the Interconnection Agreement, as amended and supplemented by this Amendment.

II. AMENDMENTS

Effective as of the date first written above, (a) Facility Schedules numbered 6 and 12 of the Interconnection Agreement are hereby amended, (b) Facility Schedules numbered 14 through 32 are hereby added to the Interconnection Agreement, and (c) Exhibit A of the Interconnection Agreement is hereby amended to record these changes. Such additional Facility Schedules, amended Facility Schedules and amended Exhibit A will be included in the Interconnection Agreement to form one consolidated and amended agreement.

III. RATIFICATION OF OTHER TERMS

All other terms and conditions of the Interconnection Agreement which are not specifically amended by this Amendment shall remain unchanged and are hereby ratified by the Parties and shall continue to be in full force and effect.

IN WITNESS WHEREOF, the Parties have caused this Amendment No. 1 to the Interconnection Agreement to be executed in two (2) counterparts, each of which shall be deemed an original but both shall constitute one and the same instrument.

AEP TEXAS CENTRAL COMPANY

By _____
Name: Michael Heyeck
Title: Vice President

Date: 3/16/07

LCRA TRANSMISSION SERVICES CORPORATION

By _____
Name: Ross Phillips
Title: Vice President and Chief Operating Officer

Date: 3/6/07

EXHIBIT A

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (KV)	LAST DATE(S) OF AMENDMENT IN THIS OR PREVIOUS INTERCONNECTION AGREEMENT*
1A	Luling 69 (1)	69	June 1, 1973
1B	Luling 12.5 (1)	12.5	June 1, 1973
2	Yorktown (1)	12.5	June 1, 1973
3	Nordheim (1)	12.5	June 1, 1973
4	Glidden (1)	138	October 8, 1979
5	Cuero (1)	138	June 1, 1973
6	Camp Wood (1)	69	December 28, 1990 March 16, 2007
7	Nixon (1)	69	April 11,1994
8	Leakey (1)	12.5	December 10, 1998
9	Coleto Creek (1)	345	January 11, 2005
10	Citgo North Oak Park (3)	138	January 11, 2005
11	Lon C. Hill (2)	138	January 11, 2005
12	Highway 9 (1)	138	January 11, 2005 March 16, 2007
13	Nueces Bay (2)	138	January 11, 2005
14	Cantwell (2)	138	March 16, 2007
15	Weil Tract (2)	138	March 16, 2007
16	Rincon (1)	138	March 16, 2007
17	Rockport (3)	138	March 16, 2007
18	Fulton (2)	138	March 16, 2007
19	Roma (1)	138	March 16, 2007
20	Garceno (2)	138	March 16, 2007
21	Rio Grande City (2)	138	March 16, 2007
22	La Grulla (2)	138	March 16, 2007
23	Goodwin (2)	138	March 16, 2007

* These dates do not necessarily reflect the date that the Point of Interconnection was established.

EXHIBIT A Continued

FACILITY SCHEDULE NO.	LOCATION OF POINT(S) OF INTERCONNECTION (# of Points)	INTERCONNECTION VOLTAGE (KV)	DATE INCLUDED IN THIS OR PREVIOUS INTERCONNECTION AGREEMENT*
24	Frontera Switching Station 138 (1)	138	March 16, 2007
25	Asherton (1)	138	March 16, 2007
26	Conoco Chittam Ranch Tap (2)	138	March 16, 2007
27	Pueblo (2)	138	March 16, 2007
28	Escondido Switching Station(2)	138	March 16, 2007
29	Uvalde (1)	138	March 16, 2007
30	Asphalt Mines (2)	138	March 16, 2007
31	Bracketville (2)	138	March 16, 2007
32	Hamilton Road (1)	138	March 16, 2007

* These dates do not necessarily reflect the date that the Point of Interconnection was established.

FACILITY SCHEDULE No. 6
Amendment No. 1

1. Name: **Camp Wood**

2. Facility Location: The Camp Wood Substation is located at 735 River Road in the City of Camp Wood, Real County, Texas. There is one Point of Interconnection at this location. It is located at the point where the jumper conductors from the substation equipment physically contact the conductors on the 69 kV transmission line from the Bandera Electric Cooperative ("Bandera") Leakey Substation.

3. Delivery Voltage: 69 kV.

4. Metered Voltage and Location: 69 kV metering located on the 69 kV transmission line to the Leakey Substation.

5. Normal Operation of Interconnection: Closed

6. One Line Diagram Attached: Yes

7. Description of Facilities Owned by Each Party:

AEP owns the following facilities:

- the Camp Wood Substation and all the substation facilities within it, except for the LCRA facilities identified below.
- a four-wire RTU communication circuit from the station to the AEP control center

LCRA owns the following facilities:

- insulators and hardware connections on the dead-end structure that terminates the 69 kV line from the Leakey substation

8. Facility Operation Responsibilities of the Parties:

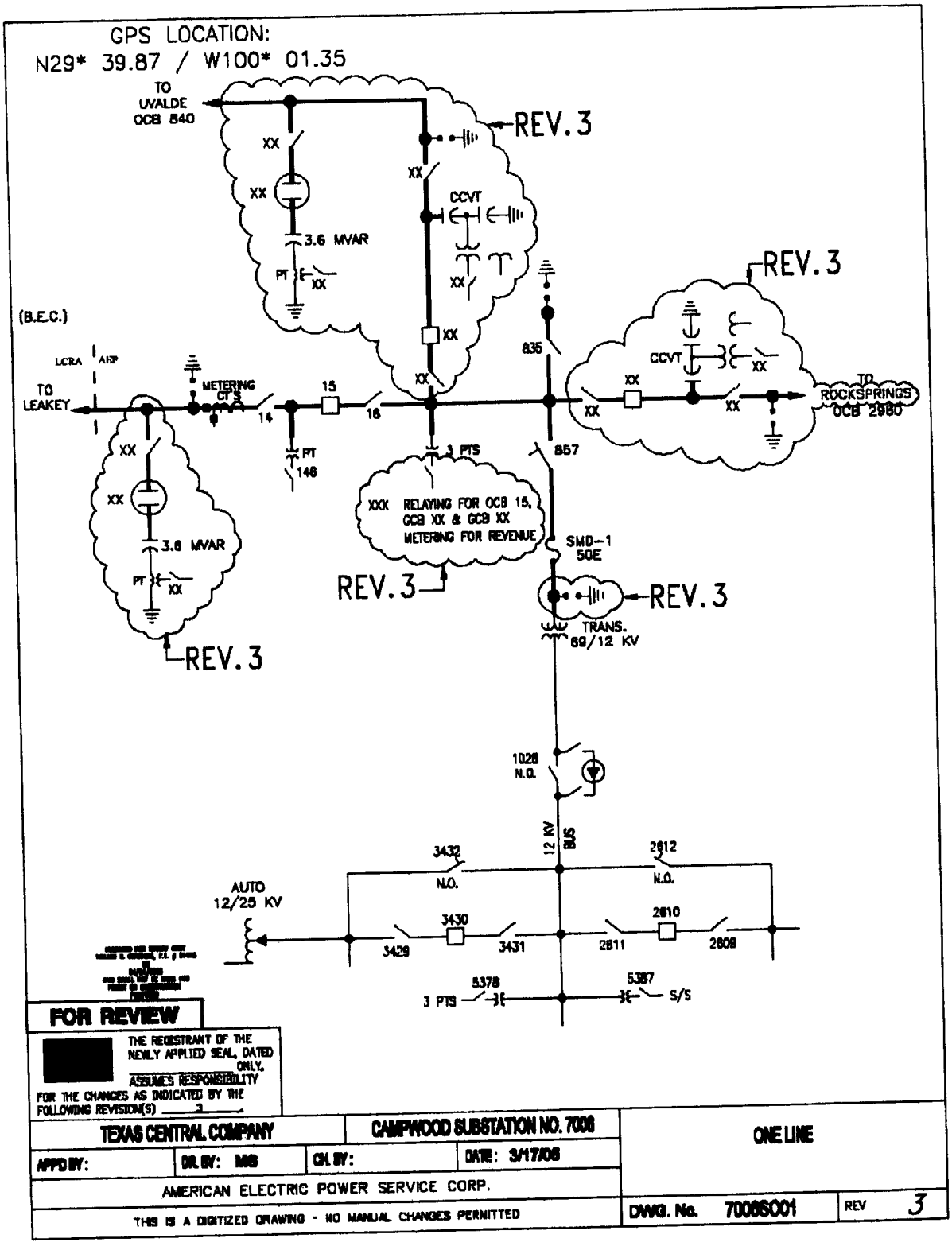
- Each Party operates and controls the facilities it owns.
- LCRA and AEP will coordinate the voltage profile that must be maintained in area stations equipped with 138/69 kV autotransformers (Uvalde, Sonora, and Bandera). Voltages at Sonora and Uvalde will be in compliance with the ERCOT Operating Guides and ERCOT Protocols.
- Each party will be fully responsible for the maintenance of the facilities it owns.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the cost and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule

10. Other Terms and Conditions:

- AEP will provide the relay equipment at Camp Wood and LCRA will provide the relay equipment at Leakey to protect the Camp Wood to Leakey 69 kV transmission line. The Parties will jointly review the overall protection scheme and mutually agree on the relay settings for this line.
- AEP will furnish station service power at no cost to LCRA.
- AEP will provide the terminal block connections for LCRA to receive metering and telemetry signals.
- Bandera, a wholesale transmission customer of LCRA, has agreed to provide AEP a distribution point of delivery at its Leakey substation. All costs associated with the establishment of this distribution point of delivery will be AEP's responsibility.
- AEP shall have the right to convert its facilities at Camp Wood to a higher voltage in the future. AEP agrees to notify LCRA of its intentions to do so at least three (3) years prior to any such conversion taking place.
- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via its Inter-control Center Communications Protocol (ICCP) communication circuit to the ERCOT control center.


GPS LOCATION:
N29* 39.87 / W100* 01.35
TO UVALDE OCB 840
REV. 3
XX
CCVT
3.6 MVAR
PT
(B.E.C.)
LCRA
AEP
TO LEAKEY
METERING CT'S
14
15
16
835
857
REV. 3
TO ROCKSPRINGS OCB 2980
PT 148
3 PTS
XXX RELAYING FOR OCB 15, GCB XX & GCB XX METERING FOR REVENUE
SMD-1 50E
REV. 3
TRANS. 69/12 KV
REV. 3
1028 N.O.
12 KV BUS
3432 N.O.
2612 N.O.
AUTO 12/25 KV
3430
2610
3429
3431
2611
2609
5378
5387
3 PTS
S/S
FOR REVIEW
THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED ONLY, ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 3
TEXAS CENTRAL COMPANY
CAMPWOOD SUBSTATION NO. 7008
ONE LINE
APPD BY:
DR. BY: MB
CK. BY:
DATE: 3/17/06
AMERICAN ELECTRIC POWER SERVICE CORP.
THIS IS A DIGITIZED DRAWING - NO MANUAL CHANGES PERMITTED
DWG. No. 7008S001
REV 3

FACILITY SCHEDULE NO. 12
Amendment No. 1

1. Name: **Highway 9**

2. Facility Location: The Highway 9 Station is located in Corpus Christi, in Nueces County, Texas. The Point of Interconnection is at the termination of the 138 kV transmission line from the Citgo North Oak Park Station where the jumper conductors from the substation equipment physically contact the connectors on the 138kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Highway 9 Station and all the substation facilities within it
- transmission line relay protection panel and all associated equipment for the LCRA transmission line
- the Remote Terminal Unit (RTU)
- a four-wire RTU communications circuit from the station to the AEP control center
- jumper conductors from the station facilities to the Point of Interconnection
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures;
  - Highway 9 to Nueces Bay 138 kV transmission line
  - Highway 9 to Arcadia 138 kV transmission line
  - Highway 9 to Javelina 138 kV transmission line
  - Highway 9 to Morris St 138 kV transmission line
  - all 69 kV transmission lines that terminate at the Highway 9 Station
- substation deadend structures that terminate all transmission lines into the station

- OPGW shield/fiber aerial cable, transmission line easements, fiber optic communications circuits, under-built distribution voltage circuits, and the Industrial to Highway 9 69kV transmission circuit comprised of conductors, insulators and connecting hardware attached to LCRA's Highway 9 to Citgo North Oak Park 138 kV transmission line structures.

LCRA owns the following facilities:

- insulators and hardware connections on the deadend structure that terminates the 138 kV line from the Citgo North Oak Park Station.
- the following transmission lines comprised of licenses, conductors, insulators, connecting hardware, and structures;
  - Highway 9 to Citgo North Oak Park Station 138 kV transmission line
- a four-wire RTU communications circuit from the station to the LCRA control center

8. Facility Operation Responsibilities of the Parties:

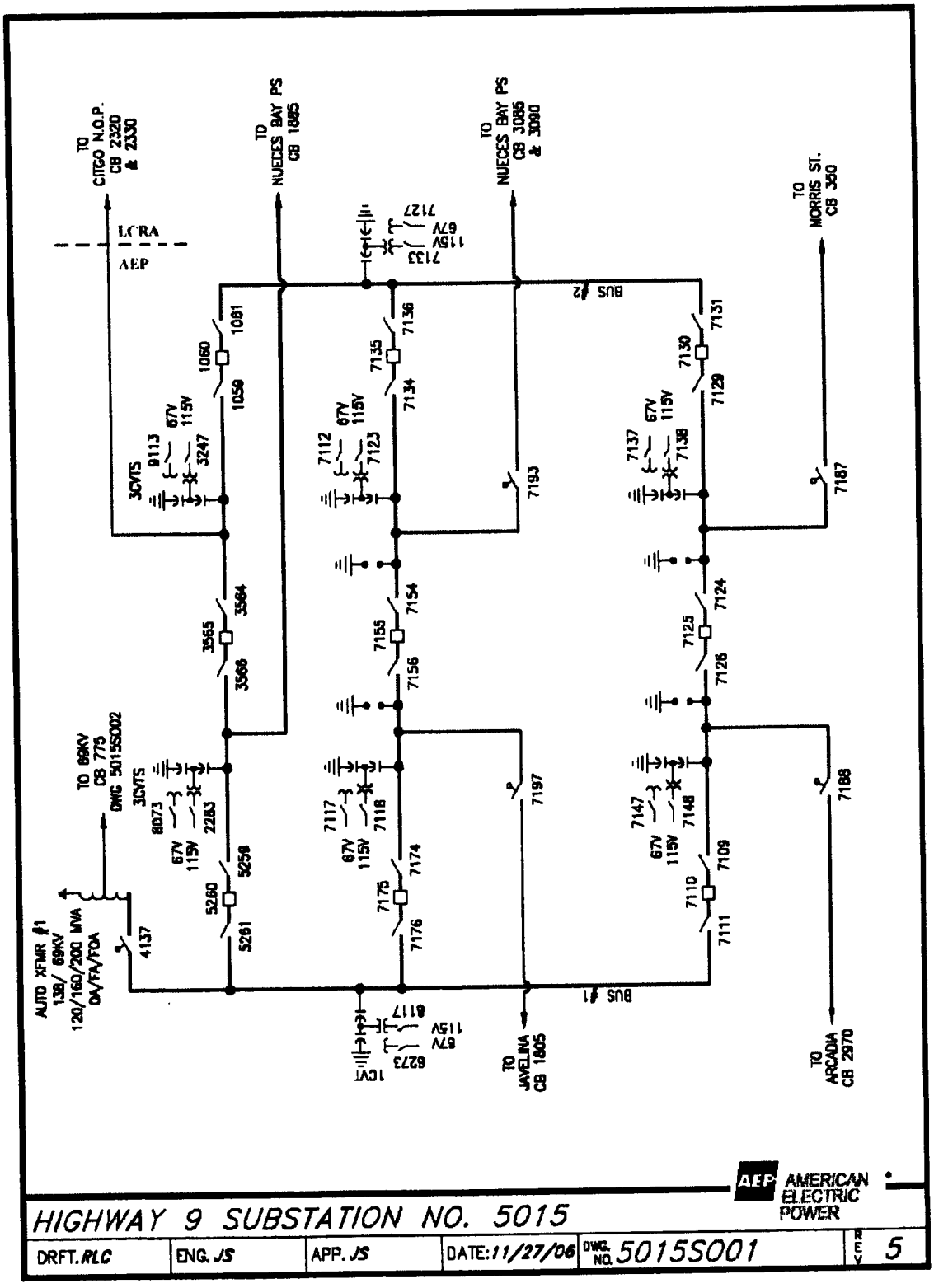
- AEP controls and operates the Highway 9 Substation, including all facilities within it.
- AEP controls and operates all of the transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party, will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party, will be subject to review and approval by the other Party.
- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a four-wire RTU communications circuit until such time that a direct Inter-control Center Communications Protocol (ICCP) communication circuit is established between the Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.
- AEP will provide physical space at the station for LCRA to terminate a four-wire RTU communications circuit until such time that LCRA establishes its ICCP communication circuit between control centers.


TO CITGO N.O.P. CB 2320 & 2330
LCRA
AEP
TO NUECES BAY PS CB 1885
TO NUECES BAY PS CB 3085 & 3090
TO MORRIS ST. CB 350
BUS #2
BUS #1
TO 69KV CB 775 DWG 5015S002
AUTO XFMR #1 138/ 69KV 120/160/200 MVA OA/FA/FOA
TO JAVELINA CB 1805
TO ARCADIA CB 2970
HIGHWAY 9 SUBSTATION NO. 5015
AMERICAN ELECTRIC POWER
DRFT. RLC
ENG. JS
APP. JS
DATE: 11/27/06
DWG. NO. 5015S001
REV. 5

FACILITY SCHEDULE NO. 14

1. Name: **Cantwell**

2. Facility Location: The Cantwell Substation is owned by Valero Refining – Texas, L.P. and is located on Cantwell Lane near Up River Road in Corpus Christi, Texas. There are two (2) Points of Interconnection at the Cantwell Substation. Each of these Points of Interconnection are located at the point where the jumper conductors from the line side disconnect switches inside the substation physically contact the connectors on the Citgo North Oak Park to Cantwell and Weil Tract to Cantwell 138 kV transmission lines.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

Valero Refining-Texas LP owns the following facilities:

- the Cantwell Substation, including the 138 kV ring bus comprised of circuit breakers and switches, and all facilities within it except for the metering and telemetry equipment owned by AEP
- conductors and connecting hardware from the 138 kV metering instrument transformers to the 138 kV line side disconnect switches and 138 kV bus inside the Cantwell Substation

AEP owns the following facilities:

- 2 –revenue quality meter instrument transformers (one at each Point of Interconnection) located inside the Cantwell Substation
- 1 – Remote Terminal Unit (RTU) inside the substation
- a four-wire RTU communications circuit from the substation to the AEP control center
- 1 - dynamics and fault recorder inside the substation
- fiber optic multiplexer, cable, conduit, splice box, and termination panel inside the substation for the fiber optics from the Citgo North Oak Park Substation
- OPGW shield/fiber aerial cable, transmission line easements, fiber optic

communications circuits, under-built distribution voltage circuits, and the following transmission circuits comprised of conductors, insulators, and connecting hardware:

- Coastal States East to Avery Point 69 kV transmission circuit attached to LCRA's Citgo North Oak Park to Cantwell 138 kV transmission line structures
- Nueces Bay to Highway 9 69 kV transmission circuit attached to LCRA's Citgo North Oak Park to Cantwell 138 kV transmission line structures
- Nueces Bay to Highway 9 69 kV transmission circuit attached to LCRA's Cantwell to Weil Tract 138 kV transmission line structures
- Valero East to Highway 9 69 kV transmission circuit attached to LCRA's Cantwell to Weil 138 kV transmission line structures

LCRA owns the following facilities:

- 2 - deadend structures in the Citgo North Oak Park to Weil 138 kV transmission line that turns the line in and out of the Cantwell Substation
- the following transmission lines comprised of licenses, conductors, insulators, connecting hardware, and structures;
  - the Citgo North Oak Park to Cantwell 138 kV transmission line
  - the Weil Tract to Cantwell 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

- AEP controls and operates the 138 kV ring bus (six 138 kV circuit breakers and related disconnect switches) inside the Cantwell substation.
- AEP also controls and operates all of the transmission lines that terminate into the substation
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party, will be subject to review and approval by the other Party.

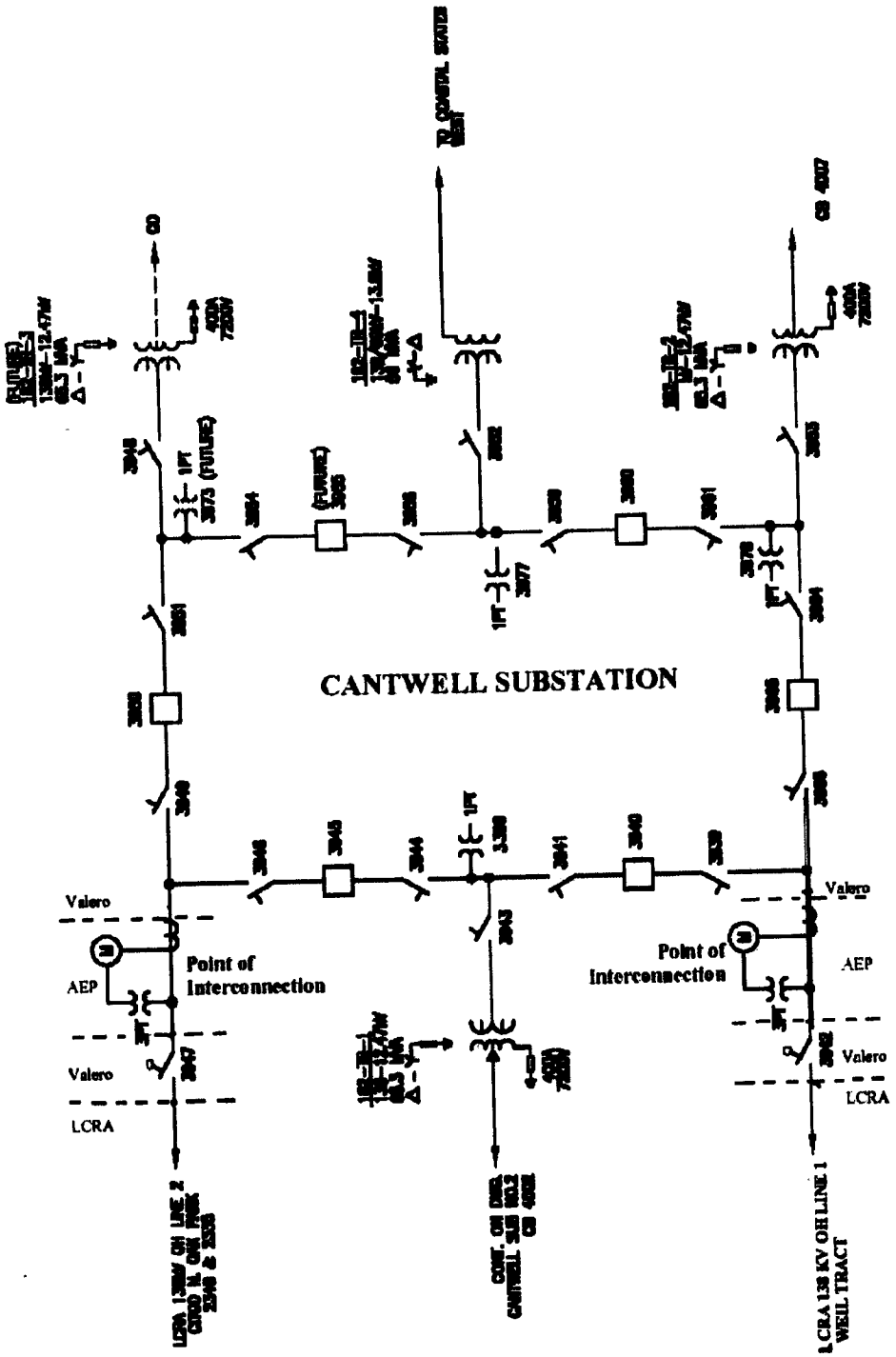
9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.

- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

AEP will poll the AEP RTU installed inside the substation and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.


CANTWELL SUBSTATION
Valero
AEP
Point of
Interconnection
Valero
LCRA
Point of
Interconnection
AEP
Valero
Valero
LCRA

FACILITY SCHEDULE NO. 15

1. Name: **Weil Tract**

2. Facility Location: The Weil Tract Switching Station is located on Corn Products Road near Leopard Street in Corpus Christi, Texas. There are two (2) Points of Interconnection at Weil Tract. One is at the termination of the 138 kV transmission line from the Cantwell Substation and the other is at the termination of the 138 kV transmission line from the Lon C. Hill Substation. Both Points of Interconnection are at the point where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Weil Tract Substation and all the substation facilities within it
- transmission line relay protection system for the termination of the 138 kV transmission lines from the Cantwell and Lon C. Hill substations
- the Remote Terminal Unit (RTU)
- a four-wire RTU communications circuit from the station to the AEP control center
- jumper conductors from the substation facilities to the Points of Interconnection
- substation deadend structures that terminate all transmission lines into the substation
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures;
  - Weil Tract to Citgo West 138 kV transmission line
  - Weil Tract to Westside 138 kV transmission line
- OPGW shield/fiber aerial cable, transmission line easements, the attached fiber optic communications circuits, under-built distribution voltage circuits, and the following transmission circuits comprised of conductors, insulators and connecting hardware:

- Nueces Bay to Highway 9 69 kV transmission circuit attached to LCRA's Cantwell to Weil Tract 138 kV transmission line structures
- Valero East to Highway 9 69 kV transmission circuit attached to LCRA's Cantwell to Weil Tract 138 kV transmission line structures
- Kingsville to Lon C. Hill 138 kV transmission circuit attached to LCRA's Weil Tract to Lon C. Hill 138 kV transmission line structures

LCRA owns the following facilities:

- 6 – transmission line deadend structures within the Weil Tract Substation
- the following transmission lines comprised of licenses, conductors, insulators, connecting hardware, and structures;
  - the Weil Tract to Lon C. Hill 138 kV transmission line
  - the Weil Tract to Cantwell 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

- AEP controls and operates the Weil Substation, including all facilities within it.
- AEP also controls and operates all of the transmission lines that terminate into the substation.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

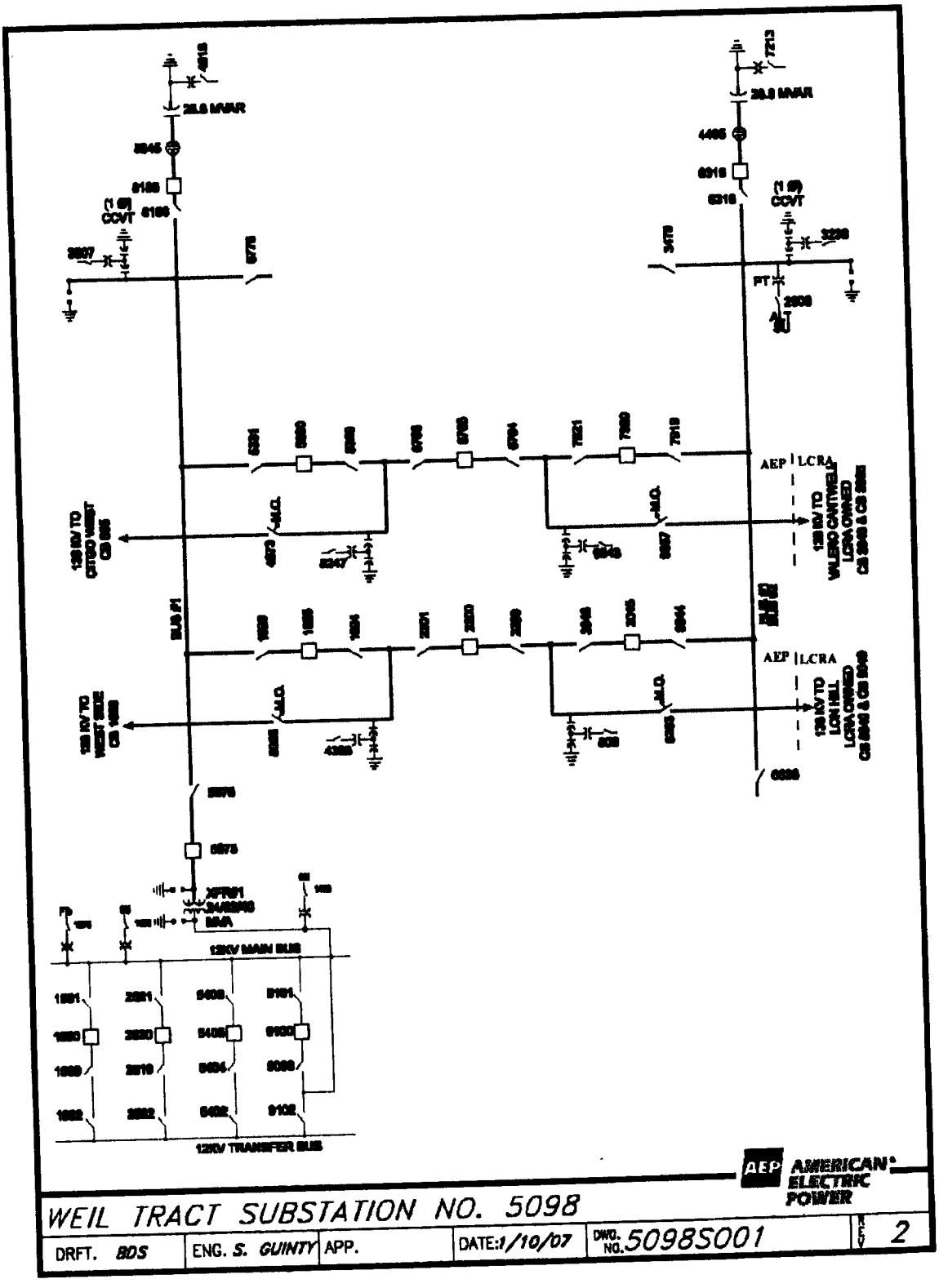
9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed inside the substation and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol

(ICCP) communication circuit between the Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.


AEP | LCRA
AEP | LCRA
12KV MAIN BUS
12KV TRANSFER BUS
AEP AMERICAN ELECTRIC POWER
WEIL TRACT SUBSTATION NO. 5098
DRFT. BDS
ENG. S. GUINTY
APP.
DATE: 1/10/07
DWG. NO. 5098S001
REV 2

FACILITY SCHEDULE NO. 16

1. Name: **Rincon Switching Station**

2. Location: The Rincon Switching Station is located near Taft, Texas in San Patricio County. The Point of Interconnection is at the termination of the 138 kV transmission line from the Rockport Substation where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Rincon Switching Station and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- OPGW shield/fiber aerial cable and attached fiber optic communications circuits from the station to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- the following transmission line(s) comprised of structures, easements, conductors, insulators, and connecting hardware:
  - Rincon to Seadrift Coke (Airco) 138 kV transmission line
  - Rincon to Whitepoint Switching Station 138 kV transmission line
  - Rincon to DuPont Switching Station double circuit 138 kV transmission line
  - Rincon to Bonnie View 69 kV transmission line
  - Rincon to Gregory 69 kV transmission line
  - Rincon to Midway Pump 69 kV transmission line
- distribution line easements and any under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission line from the Rockport station

- the following transmission line(s) comprised of structures, conductors, insulators, easements and connecting hardware and attached OPGW shield/fiber aerial cable and fiber optic communications circuits:
  - Rincon to Rockport 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

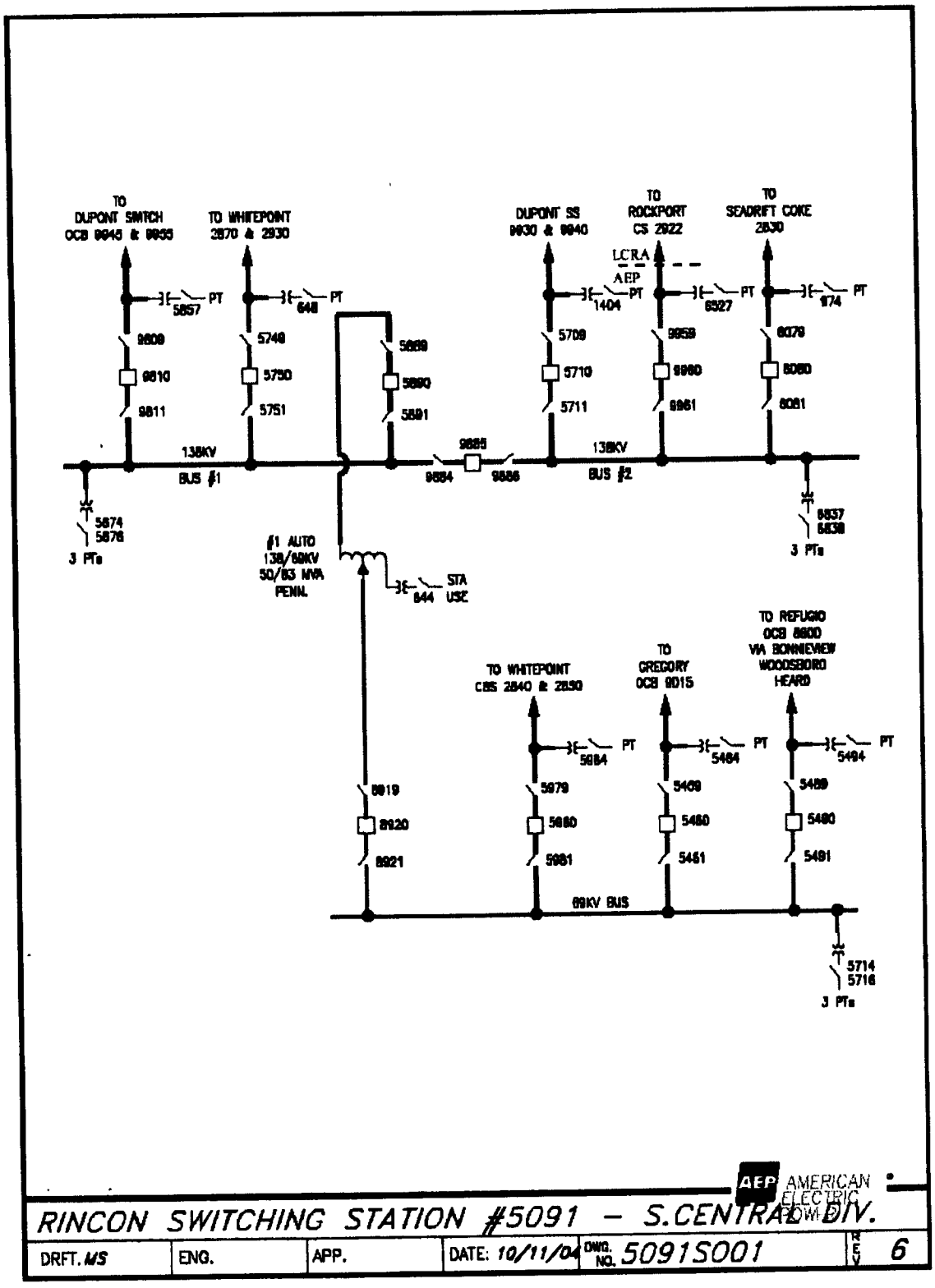
- AEP controls and operates the Rincon Switching Station, including all facilities within it.
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



AEP AMERICAN ELECTRIC POWER

RINCON SWITCHING STATION #5091 – S.CENTRAL DIV.

DRFT. MS	ENG.	APP.	DATE: 10/11/04	DWG. NO. 5091S001	REV 6

FACILITY SCHEDULE NO. 17

1. Name: **Rockport**

2. Location: The Rockport Substation is located near Rockport, Texas in Aransas County. There are two Points of Interconnection at the Rockport Substation. One Point of Interconnection is at the termination of the 138 kV transmission line from the Rincon Substation and the other is at the termination of the 69 kV transmission line from the Fulton Substation. Both Points of Interconnection are where the jumper conductors from the substation equipment physically contact the connectors on the transmission line conductors.

3. Delivery Voltage: 138 kV / 69 kV

4. Metered Voltage: 138 kV / 69 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Rockport Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- OPGW shield/fiber aerial cable and attached fiber optic communications circuits from the station to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- the following transmission line(s) comprised of structures, easements, conductors, insulators, and connecting hardware and any attached OPGW shield/fiber aerial cable and fiber optic communications circuits:
  - Rockport to Aransas Pass 69 kV transmission line
  - Rockport to Fulton via Live Oak 69 kV transmission line
- any under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission line from the Rincon station

- the following transmission line(s) comprised of easements, structures, conductors, insulators, shield wires and connecting hardware and any attached OPGW shield/fiber aerial cable and fiber optic communications circuits:
  - Rockport to Rincon 138 kV transmission line
  - Rockport to Fulton 69 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

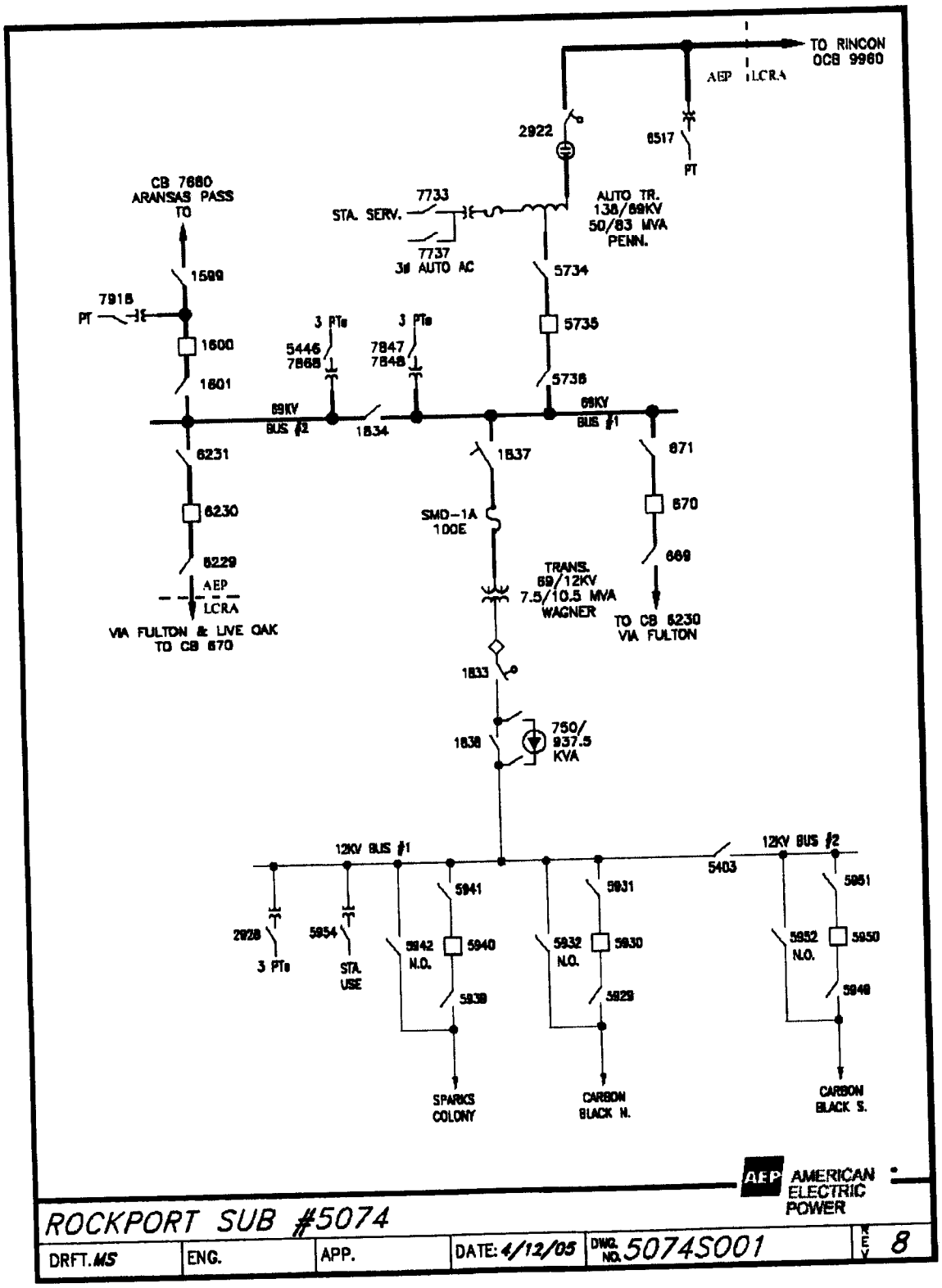
- AEP controls and operates the Rockport Substation, including all facilities within it.
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.


TO RINCON
OCB 9960
AEP
LCRA
2922
6517
PT
CB 7680
ARANSAS PASS
TO
7733
STA. SERV.
7737
3Ø AUTO AC
AUTO TR.
138/69KV
50/83 MVA
PENN.
5734
1599
7915
PT
1600
1601
3 PTs
5446
7868
3 PTs
7847
7848
5735
5736
69KV
BUS #2
1834
69KV
BUS #1
6231
6230
6229
AEP
LCRA
VIA FULTON & LIVE OAK
TO CB 670
1837
871
670
669
SMD-1A
100E
TRANS.
69/12KV
7.5/10.5 MVA
WAGNER
TO CB 6230
VIA FULTON
1833
1838
750/
937.5
KVA
12KV BUS #1
12KV BUS #2
5403
2928
3 PTs
5954
STA.
USE
5941
5942
N.O.
5940
5939
5931
5932
N.O.
5930
5929
5951
5952
N.O.
5950
5949
SPARKS
COLONY
CARBON
BLACK N.
CARBON
BLACK S.
AEP
AMERICAN
ELECTRIC
POWER
ROCKPORT SUB #5074
DRFT. MS
ENG.
APP.
DATE: 4/12/05
DWG. NO. 5074S001
REV 8

FACILITY SCHEDULE NO. 18

1. Name: **Fulton**

2. Location: The Fulton Substation is located near Fulton, Texas in Aransas County. The Point of Interconnection is at the termination of the 69 kV transmission line from the Rockport Substation where the jumper conductors from the substation equipment physically contact the connectors on the 69 kV transmission line conductors.

3. Delivery Voltage: 69 kV

4. Metered Voltage: 69 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Fulton Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- the following transmission line(s) comprised of structures, easements, conductors, insulators, and connecting hardware:
  - Fulton to Rockport via Live Oak 69 kV transmission line
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 69 kV transmission line from the Rockport station
- the following transmission line(s) comprised of structures, conductors, insulators, shield wires, easements and connecting hardware:
  - Fulton to Rockport 69 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

- AEP controls and operates the Fulton Substation, including all facilities within it.

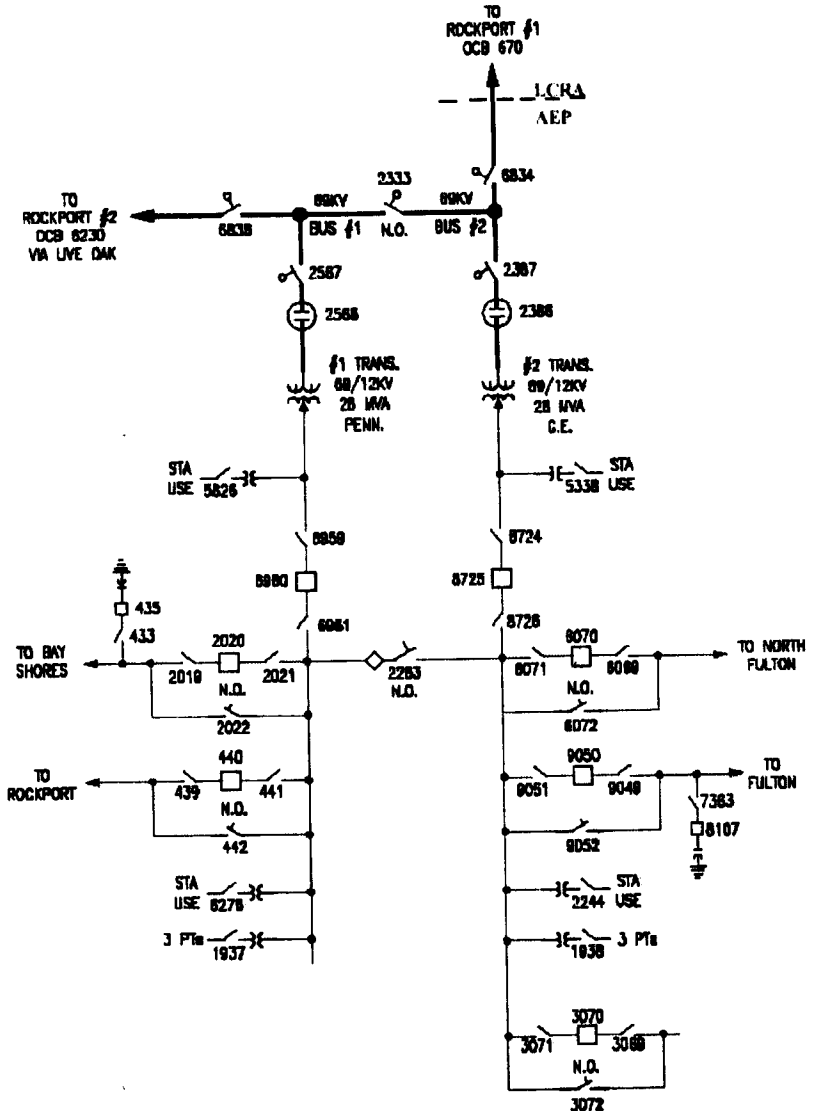
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



AEP AMERICAN ELECTRIC POWER

FULTON SUB #5009

DRFT. LJM	ENG.	APP. CRP	DATE: 1-26-06	DWG. NO. 5009S001	REV 4

FACILITY SCHEDULE NO. 19

1. Name: **Roma**

2. Location: The Roma Substation is located in Roma, Texas in Starr County. The Point of Interconnection is at the termination of the 138 kV transmission line from the Garceno Substation where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Roma Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- the following transmission line(s) comprised of structures, easements, conductors, insulators, and connecting hardware:
  - Roma to Roma Tap 138 kV transmission line
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission line from the Garceno station
- the following transmission line(s) comprised of structures, conductors, insulators, easements, licenses, shield wires and connecting hardware:
  - Roma to Garceno 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

- AEP controls and operates the Roma Substation, including all facilities within it.

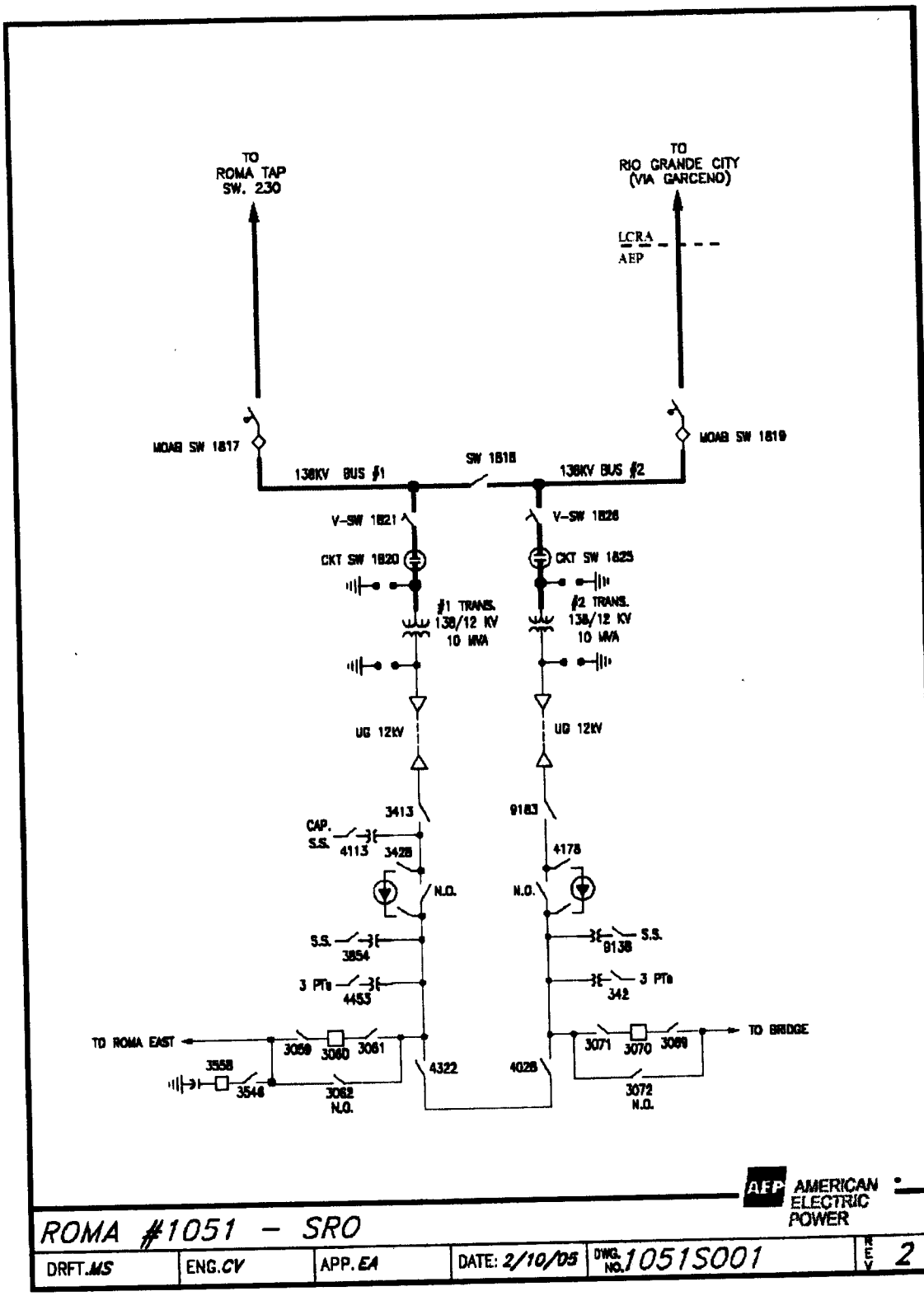
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.


TO
ROMA TAP
SW. 230
TO
RIO GRANDE CITY
(VIA GARCENO)
LCRA
AEP
MOAB SW 1817
MOAB SW 1819
138KV BUS #1
SW 1818
138KV BUS #2
V-SW 1821
V-SW 1826
CKT SW 1820
CKT SW 1825
#1 TRANS.
138/12 KV
10 MVA
#2 TRANS.
138/12 KV
10 MVA
UG 12KV
UG 12KV
3413
9183
CAP.
S.S.
4113
3428
4178
N.O.
N.O.
S.S.
3854
S.S.
9138
3 PTs
4453
3 PTs
342
TO ROMA EAST
3059
3060
3061
3071
3070
3069
TO BRIDGE
3558
3548
4322
4028
3062
N.O.
3072
N.O.
AEP AMERICAN ELECTRIC POWER
ROMA #1051 - SRO
DRFT. MS
ENG. CV
APP. EA
DATE: 2/10/05
DWG. NO. 1051S001
REV 2

FACILITY SCHEDULE NO. 20

1. Name: **Garceno**

2. Location: The Garceno Substation is located in Garceno, Texas in Starr County. There are two Points of Interconnection at the Garceno Substation. One is at the termination of the 138 kV transmission line from the Roma Substation and the other is at the termination of the 138 kV transmission line from the Rio Grande City Substation. Both Points of Interconnection are at the point where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Garceno Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission lines from the Roma and Rio Grande City stations
- the following transmission line(s) comprised of structures, conductors, insulators, easements, licenses, shield wires and connecting hardware:
  - Garceno to Roma 138 kV transmission line
  - Garceno to Rio Grande City 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

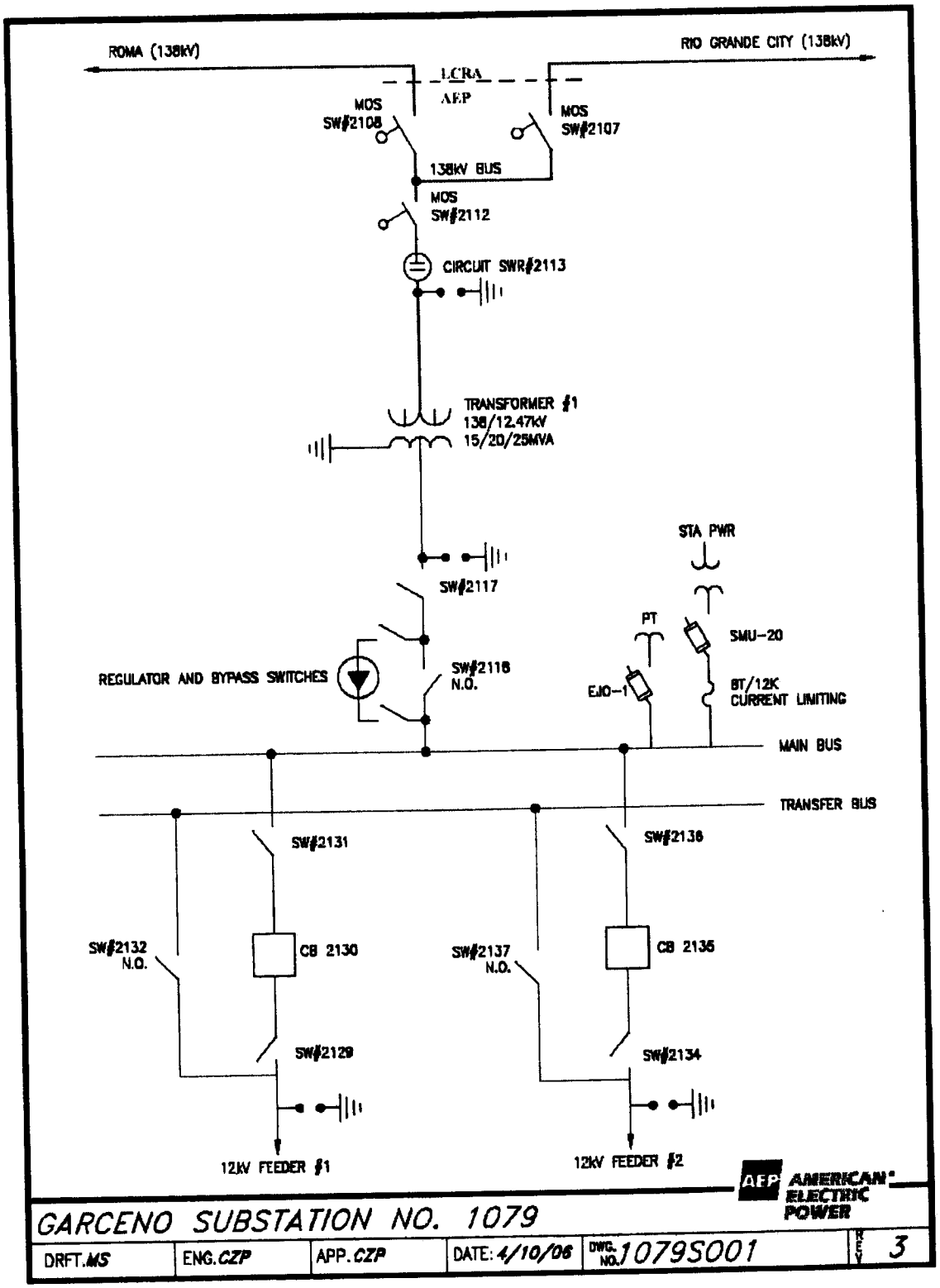
- AEP controls and operates the Garceno Substation, including all facilities within it
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.


ROMA (138kV)
RIO GRANDE CITY (138kV)
LCRA
AEP
MOS SW#2108
MOS SW#2107
138kV BUS
MOS SW#2112
CIRCUIT SWR#2113
TRANSFORMER #1
138/12.47kV
15/20/25MVA
STA PWR
SW#2117
PT
SMU-20
REGULATOR AND BYPASS SWITCHES
SW#2116 N.O.
EJO-1
8T/12K CURRENT LIMITING
MAIN BUS
TRANSFER BUS
SW#2131
SW#2136
SW#2132 N.O.
CB 2130
SW#2137 N.O.
CB 2135
SW#2129
SW#2134
12kV FEEDER #1
12kV FEEDER #2
AEP AMERICAN ELECTRIC POWER
GARCENO SUBSTATION NO. 1079
DRFT. MS
ENG. CZP
APP. CZP
DATE: 4/10/06
DWG. NO. 1079S001
REV 3

FACILITY SCHEDULE NO. 21

1. Name: **Rio Grande City**

2. Location: The Rio Grande City Substation is located in Rio Grande City, Texas in Starr County. There are two Points of Interconnection at the Rio Grande City Substation. One is at the termination of the 138 kV transmission line from the Garceno Substation and the other is at the termination of the 138 kV transmission line from the La Grulla Substation. Both Points of Interconnection are at the point where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Rio Grande City Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- the following transmission line(s) comprised of structures, conductors, insulators and connecting hardware:
  - Rio Grande City to Garza 69 kV transmission line
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission lines from the Garceno and La Grulla stations
- the following transmission line(s) comprised of structures, conductors, insulators, shield wire, easements, licenses and connecting hardware:
  - Rio Grande City to Garceno 138 kV transmission line
  - Rio Grande City to La Grulla 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

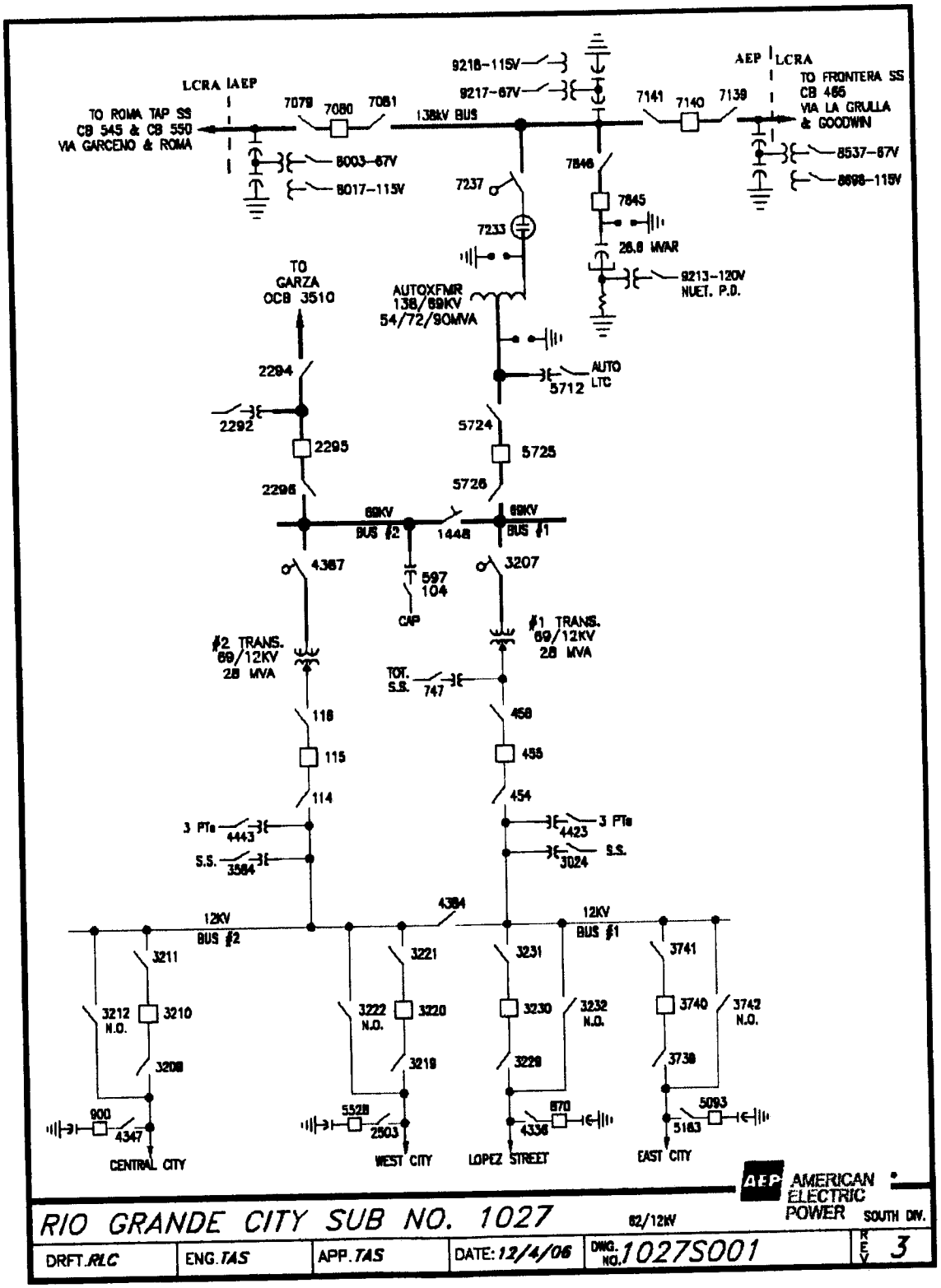
- AEP controls and operates the Rio Grande City Substation, including all facilities within it.
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.


LCRA | AEP
TO ROMA TAP SS
CB 545 & CB 550
VIA GARCENO & ROMA
7079
7080
7081
8003-67V
8017-115V
138kV BUS
9218-115V
9217-67V
7141
7140
7139
AEP | LCRA
TO FRONTERA SS
CB 465
VIA LA GRULLA
& GOODWIN
8537-67V
8698-115V
7237
7846
7845
7233
28.8 MVAR
9213-120V
NUET. P.D.
TO
GARZA
OCB 3510
AUTOXFMR
138/69KV
54/72/90MVA
AUTO
LTC
5712
2294
2292
2295
2296
5724
5725
5726
69KV
BUS #2
1448
69KV
BUS #1
4367
597
104
CAP
3207
#2 TRANS.
69/12KV
28 MVA
#1 TRANS.
69/12KV
28 MVA
TOT.
S.S.
747
118
115
114
458
455
454
3 PTs
4443
S.S.
3584
3 PTs
4423
S.S.
3024
4384
12KV
BUS #2
12KV
BUS #1
3211
3212
N.O.
3210
3208
3221
3222
N.O.
3220
3218
3231
3230
3232
N.O.
3228
3741
3740
3742
N.O.
3738
900
4347
CENTRAL CITY
5528
2303
WEST CITY
870
4336
LOPEZ STREET
5093
5163
EAST CITY
AEP AMERICAN ELECTRIC POWER SOUTH DIV.
RIO GRANDE CITY SUB NO. 1027
62/12KV
DRFT. RLC
ENG. TAS
APP. TAS
DATE: 12/4/06
DWG. NO. 1027S001
REV 3

FACILITY SCHEDULE NO. 22

1. Name: **La Grulla**

2. Location: The La Grulla Substation is located in La Grulla, Texas in Starr County. There are two Points of Interconnection at the La Grulla Substation. One is at the termination of the 138 kV transmission line from the Rio Grande City Substation and the other is at the termination of the 138 kV transmission line from the Goodwin Substation. Both Points of Interconnection are at the point where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the La Grulla Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission lines from the Rio Grande City and Goodwin stations
- the following transmission line(s) comprised of structures, conductors, insulators, easements, licenses, shield wires and connecting hardware:
  - La Grulla to Rio Grande City 138 kV transmission line
  - La Grulla to Goodwin 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

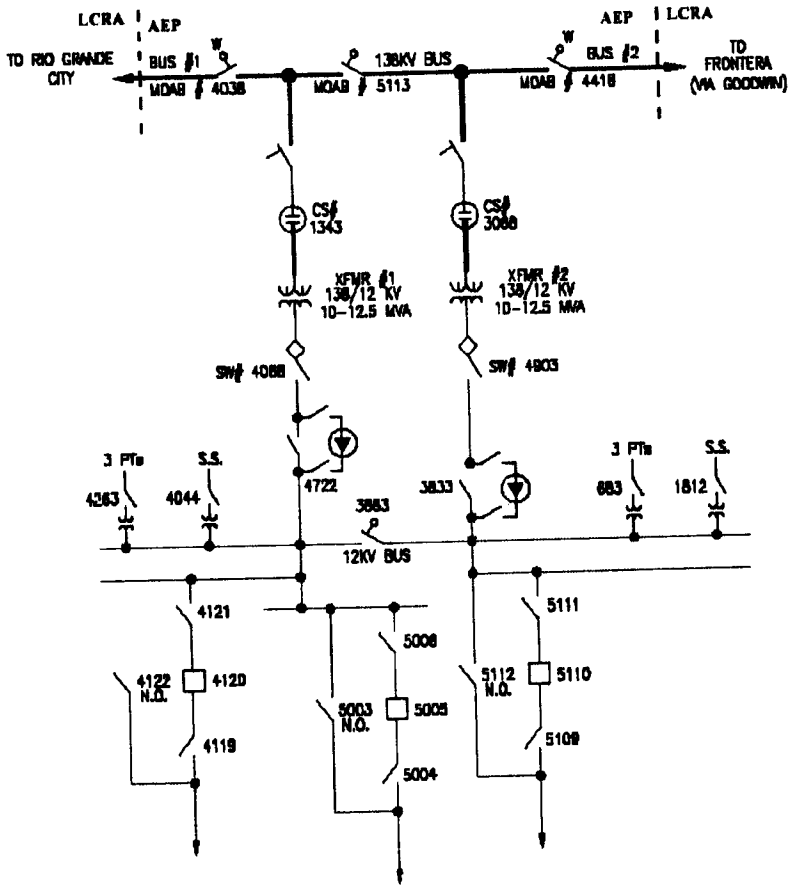
- AEP controls and operates the La Grulla Substation, including all facilities within it.
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



AEP AMERICAN ELECTRIC POWER

LAGRULLA SUB #1062

DRFT. MS	ENG. CP	APP. TAS	DATE: 4/05/05	DWG. NO. 1062S001	REV 4

FACILITY SCHEDULE NO. 23

1. Name: **Goodwin**

2. Location: The Goodwin Substation is located in Goodwin, Texas in Hidalgo County. There are two Points of Interconnection at the Goodwin Substation. One is at the termination of the 138 kV transmission line from the La Grulla Substation and the other is at the termination of the 138 kV transmission line from the Frontera Switching Station. Both Points of Interconnection are at the point where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Goodwin Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission lines from the North Weslaco station and Harlingen switching station
- the following transmission line(s) comprised of structures, conductors, insulators, easements, licenses, shield wires and connecting hardware:
  - Goodwin to La Grulla 138 kV transmission line
  - Goodwin to Frontera Switching Station 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

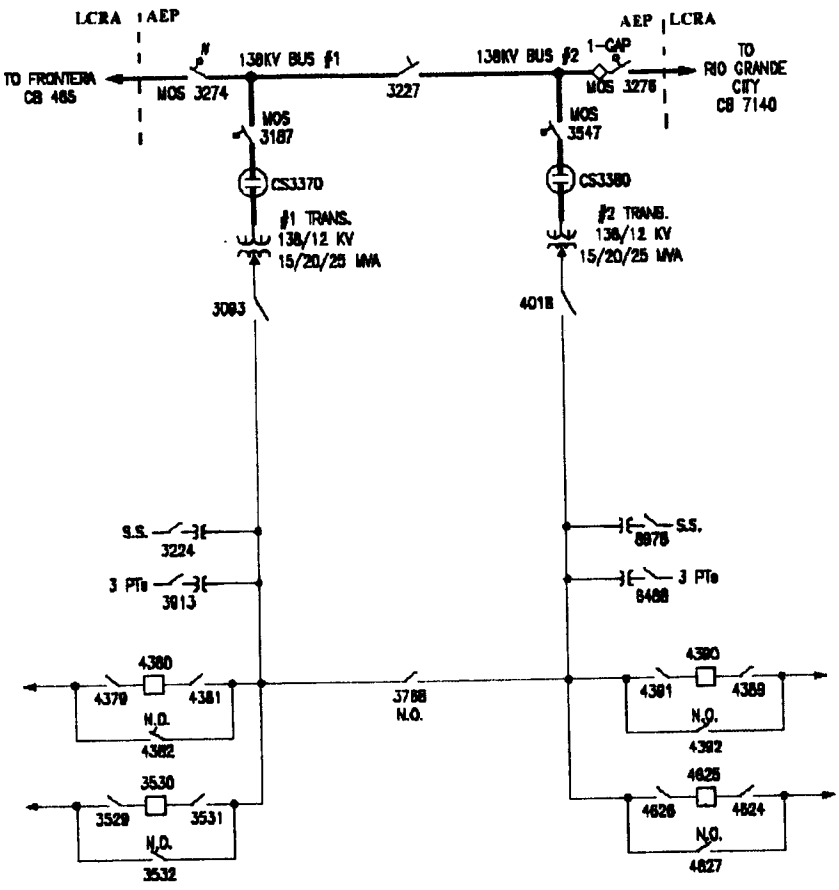
- AEP controls and operates the Goodwin Substation, including all facilities within it.
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

11. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



GOODWIN SUBSTATION NO. 1007

AEP AMERICAN ELECTRIC POWER

DRFT. LJM	ENG. TAS	APP. TAS	DATE: 11-15-05	DWG. NO. 1007S001	REV 3B

FACILITY SCHEDULE NO. 24

1. Name: **Frontera Switching Station 138**

2. Location: The 138 kV Frontera Switching Station is located near Mission, Texas in Hidalgo County. The Point of Interconnection is at the termination of the 138 kV transmission line from the Goodwin Substation where the jumper conductors from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Frontera Switching Station and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- the following transmission line(s) comprised of structures, easements, conductors, insulators, and connecting hardware:
  - Frontera Switching Station to J L Bates 138 kV transmission line
  - Frontera Switching Station to North McAllen 138 kV transmission line
  - Frontera Switching Station to Sharyland 138 kV transmission line
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission line from the Goodwin station
- the following transmission line(s) comprised of structures, conductors, insulators, easements, shield wires and connecting hardware:
  - Frontera Switching Station to Goodwin 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

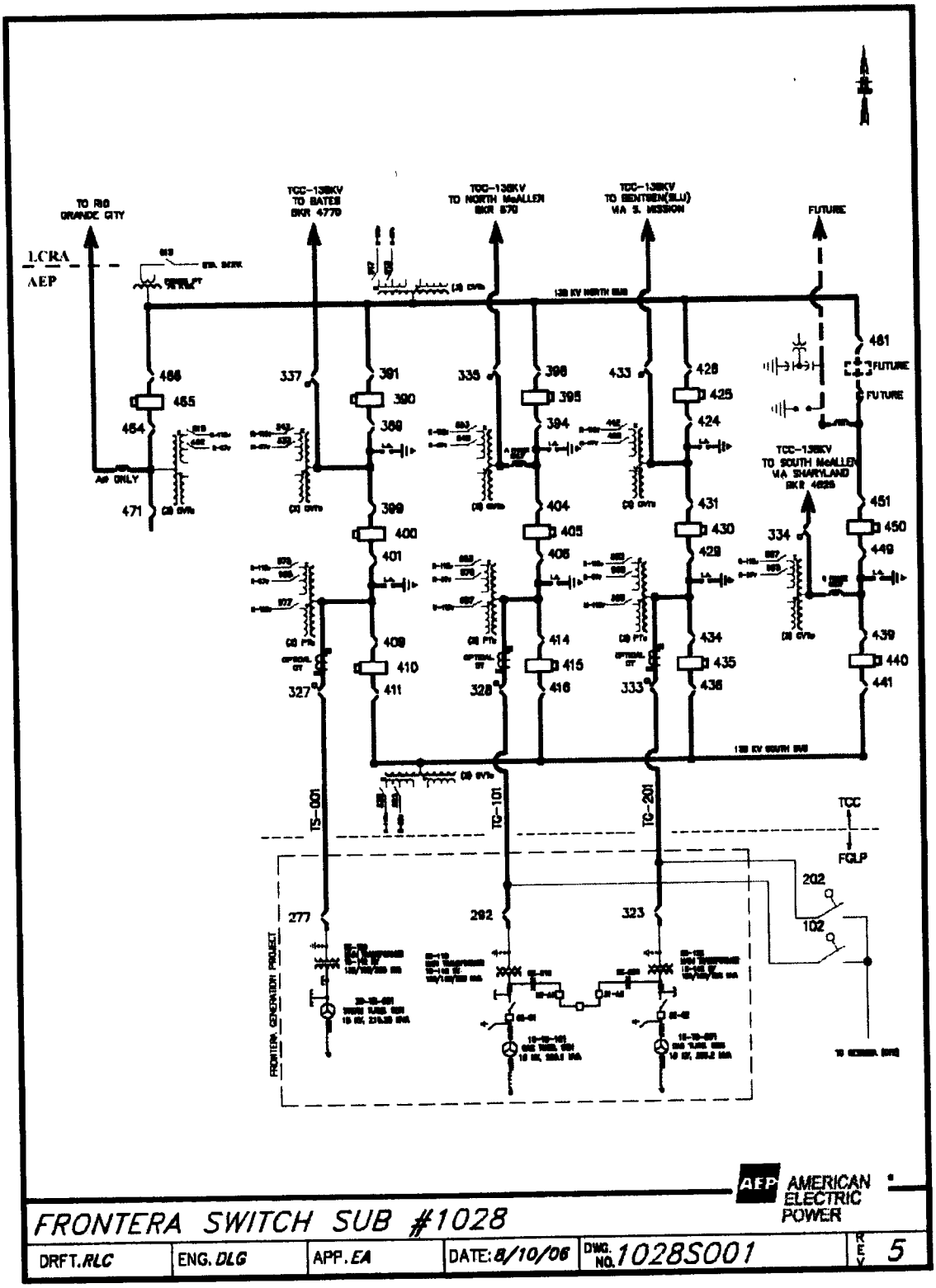
- AEP controls and operates the Frontera Switching Station, including all facilities within it.
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.


TO RIO GRANDE CITY
TCC-138KV TO BATES BKR 4770
TCC-138KV TO NORTH McALLEN BKR 870
TCC-138KV TO SEINTSEN(SLU) VIA S. MISSION
FUTURE
LCRA
AEP
TCC-138KV TO SOUTH McALLEN VIA SHARYLAND BKR 4835
138 KV NORTH BUS
138 KV SOUTH BUS
TS-001
TC-101
TC-201
TCC
FGLP
FRONTERA GENERATION PROJECT
AMERICAN ELECTRIC POWER
FRONTERA SWITCH SUB #1028
DRFT. RLC
ENG. DLG
APP. EA
DATE: 8/10/06
DWG. NO. 1028S001
REV 5

FACILITY SCHEDULE NO. 25

1. Name: **Asherton**

2. Location: The Asherton Substation is located in Asherton, Texas in Dimmit County. The Point of Interconnection is at the termination of the 138 kV transmission line from the Conoco Chittam Ranch Tap where the conductors from jumpers from the substation equipment physically contact the connectors on the 138 kV transmission line conductors.

3. Delivery Voltage: 138 kV

4. Metered Voltage: 138 kV

5. Normal Operation of Interconnection: Closed

6. One-Line Diagram Attached: Yes

7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- the Asherton Substation and all the substation facilities within it
- jumper conductors from the station facilities to the Point(s) of Interconnection
- substation deadend structures that terminate all transmission lines into the station
- the following transmission line(s) comprised of structures, easements, conductors, insulators, and connecting hardware:
  - Asherton to North Laredo Switching Station 138 kV transmission line
  - Asherton to Dilley Switching Station 138 kV transmission line
  - Asherton to West Batesville 138 kV transmission line
  - Asherton to Crystal City 69 kV transmission line
- a four-wire RTU communication circuit from the station to the AEP control center
- any distribution line easements and under-built distribution voltage circuits attached to the transmission lines that terminate into the station

LCRA owns the following facilities:

- insulators and hardware on the deadend structures that terminate the 138 kV transmission line from the Pueblo station
- the following transmission line(s) comprised of easements, structures, conductors, insulators, shield wires and connecting hardware:
  - Asherton to Conoco Chittam Ranch Tap 138 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

- AEP controls and operates the Asherton Substation, including all facilities within it.
- AEP controls and operates all transmission lines that terminate into the station.
- AEP coordinates, directs, and performs all control center and field operation activities on the transmission line(s) owned by AEP and LCRA. These activities shall include, but are not limited to, switching, clearances, and outages for planned maintenance and operations, emergency service restoration, and overall coordination of such activities with ERCOT.
- Each Party maintains the facilities it owns that are provided for in this Facility Schedule. Maintenance of the facilities, including circuit breaker relays, that are owned by one Party that protect the facilities owned by the other Party , will be subject to review and approval by the other Party.

9. Cost Responsibilities of the Parties:

- Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
- Each Party will be responsible for all costs it incurs in connection with the establishment and maintenance of the Point of Interconnection in accordance with this Facility Schedule.

10. Other Terms and Conditions:

- AEP will poll the AEP RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the AEP and LCRA control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.