

CapRock Electric Cooperative owns the following facilities inside distribution bay #1 and bay #2 of the Camp San Saba Substation:

- Two (2) distribution circuits including dead end insulators that attach to the box structure, conductors, and hardware
- Two (2) distribution circuit breakers CSS-10 and CSS-20 including jumpers, protective relay packages and foundations.
- Four (4) low voltage disconnect switches
- Two (2) surge arresters
- Two (2) fuses CSS-23 and CSS-33

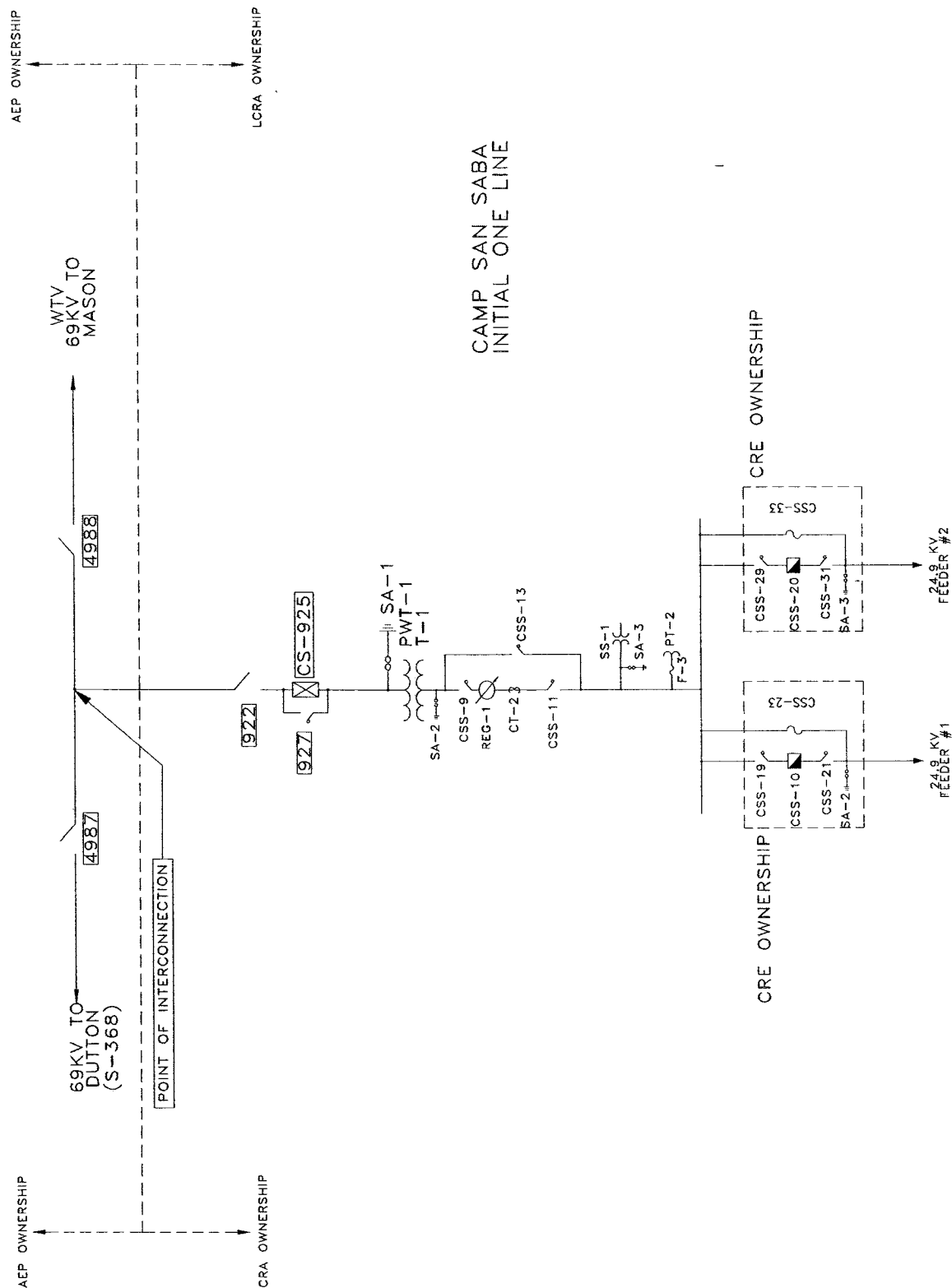
8. Facility Operation and Maintenance Responsibilities of the Parties:

Each Party controls, operates, and maintains the facilities it owns.

9. Cost Responsibilities of the Parties:

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

10. Other Terms and Conditions: None



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 28, 2010

Effective Date: March 29, 2010

## FACILITY SCHEDULE NO. 9

1. Name: **Segovia Tap**
2. Location: The Pedernales Electric Cooperative (PEC) Segovia Substation is located near FM 377 approximately 2 miles east of Junction, Texas at 11525 E. RR 2169 in Kimble County, Texas and is connected through a radial 69 kV transmission line (tap line) to the AEP transmission network. The Point of Interconnection is where the conductors of the transmission tap line from switch #1382 physically contact the connectors on the 69 kV transmission line from the Mason Switching Station to Old Junction Substation.
3. Delivery Voltage: 69 kV
4. Metered Voltage: 24.9 kV metering is located on the 24.9 kV bus between the regulators and the 24.9 kV operating bus at the Segovia Substation.
5. Normal Operation of Interconnection: Closed
6. One-Line Diagram Attached: Yes
7. Facility Ownership Responsibilities of the Parties:

AEP owns the following facilities:

- 69 kV transmission line from Mason Switching Station to Old Junction Substation
- 69 kV line switches (6782 and 6783)

LCRA owns the following facilities:

- Segovia Tap Substation
- approximate 10 mile 69 kV transmission tap line from the Point of Interconnection at switch #1382 to switch #1384 inside the Segovia Substation
- One standard A-frame transmission structure
- 24.9 kV meter and instrument transformers inside the Segovia Substation
- 69 kV tap line switch (1382) at Segovia Tap Substation.

LCRA leases the following facilities from PEC at the Segovia Substation:

- One 69 kV switch (1384)
- One 69 kV Surge Arrestor (SA-1)
- One 69 kV fuse (SG1-F3)

PEC owns the following facilities:

- Segovia Substation and all the facilities within except for the facilities identified above

8. Facility Operation and Maintenance Responsibilities of the Parties:

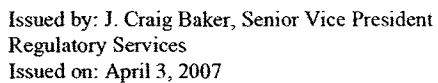
Each Party controls, operates, and maintains the facilities it owns.

LCRA controls and operates the facilities it leases.

9. Cost Responsibilities of the Parties:

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

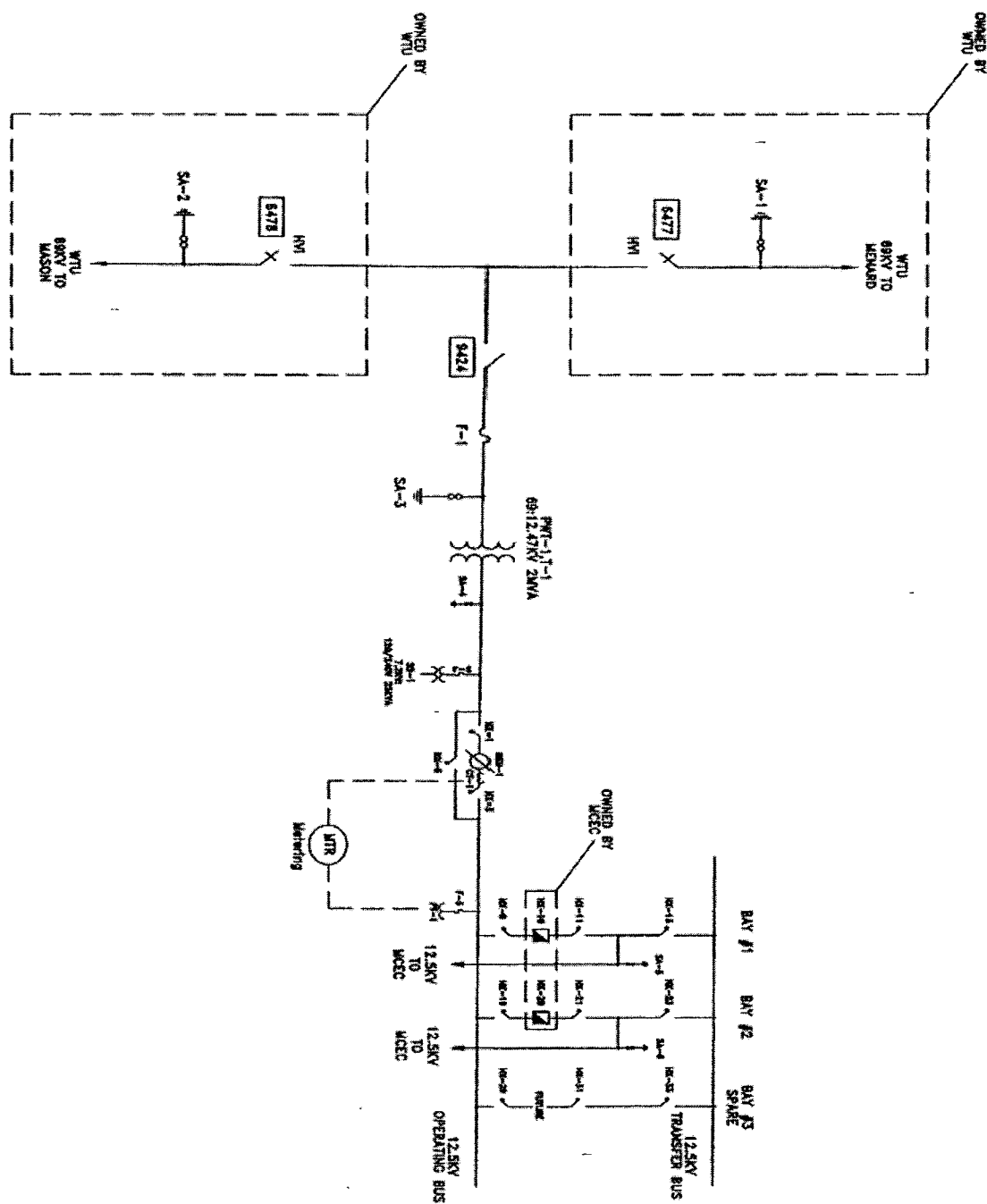
10. Other Terms and Conditions: None



Effective Date: March 16, 2007

### FACILITY SCHEDULE NO. 10

1. Name: **Hext**
2. Facility Location: The Hext Substation is located on Pope Road just North of US 27 under the 69 kV Menard to Mason Switching Station transmission line. The Point of Interconnection is where the 69 kV bus jumpers physically contact the connectors on the transmission line switches.
3. Delivery Voltage: 69kV
4. Metering: 12.5 kV metering is located between the regulators and the 12.5 kV operating bus.
5. Normal Operation of Interconnection: Closed
6. One-Line Diagram Attached: Yes
7. Facility Ownership Responsibilities of the Parties:  
  
AEP owns the following facilities:
  - 69 kV transmission line from AEP's Mason Switching Station to AEP's Menard Substation
  - Transmission lines dead-end insulator strings and termination hardware
  - Two (2) VAB switches (6477 and 6478) and two (2) sets of line interrupters
  - Six (6) surge arresters, 42 kV MCOV, station class
  - Jumpers from switches 6477 and 6478 to the lines and jumpers to the surge arrestors  
LCRA owns the following facilities:
  - Hext Substation and all the facilities within it except for those noted above and the distribution reclosers
8. Facility Operation and Maintenance Responsibilities of the Parties:  
  
Each Party controls, operates and maintains the facilities it owns.
9. Cost Responsibilities of the Parties:  
  
Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.
10. Other Terms and Conditions: None



HEXT

## FACILITY SCHEDULE NO. 11

1. Name: **LCRA North McCamey Switchyard**
2. Location: The LCRA North McCamey Switchyard is in Upton County, located approximately 1.9 miles west of McCamey, Texas. There are two Points of Interconnection at the LCRA North McCamey Switchyard. One is at the termination of the 138kV transmission line from the North McCamey Substation and the second is at the termination of the 138 kV transmission line from the Big Lake Substation. Both Points of Interconnection are at the point where the jumper conductors from the LCRA station 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:

- North McCamey Substation and all facilities within it
- 138 kV capacitor banks inside the LCRA North McCamey Switchyard
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
  - LCRA North McCamey Switchyard to Big Lake 138 kV transmission line
  - LCRA North McCamey Switchyard to AEP's North McCamey Substation 138kV transmission line
- a four-wire Remote Terminal Unit (RTU) communication circuit from the LCRA North McCamey Switchyard to the AEP control center

LCRA owns the following facilities:

- LCRA North McCamey Switchyard and all the facilities within it, except for those facilities identified above as owned by AEP
- fiber facility entries including patch panel for the optical ground wire (OPGW) facilities inside the LCRA North McCamey control house
- the RTU
- transmission line relay protection panels and all associated equipment for all the transmission lines into the station



- deadend structures that terminate all transmission lines into the station
- jumper conductors from the station facilities to the Points of Interconnection
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
  - LCRA North McCamey Switchyard to LCRA Crane double circuit 138 kV transmission line including OPGW
  - LCRA North McCamey Switchyard to LCRA West Yates Switchyard double circuit 138 kV transmission structures with single circuit installed
  - LCRA North McCamey Switchyard to Rio Pecos double circuit 138 kV transmission line
  - LCRA North McCamey Switchyard to the King Mountain East and Southwest Mesa 138 kV taps including OPGW

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the switchyard facilities and transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

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

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.

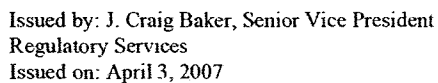
AEP's SCADA will poll the RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the Parties' control centers. The Parties will coordinate the analog and digital point list and communications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

LCRA will assign AEP rights and access, upon request and availability, to the following OPGW related facilities inside the LCRA control house to use in operating the AEP electric transmission system:

- facility entry fibers 19 thru 24 which may not be sublet or reassigned to 3<sup>rd</sup> party customers
- patch panel rack space for AEP communications equipment
- one 125VDC/200W power supply
- one 120VAC/15A power supply

LCRA shall maintain and repair the OPGW fiber network for failures of individual OPGW segment failures. If a catastrophic fiber network failure occurs over multiple segments due to aging, manufacture defects, or other unexpected reasons it shall be LCRA's option to discontinue the assignment of fibers 19-24 to AEP.

AEP will provide LCRA with DS0 circuits on its T1 multiplexer network fibers if capacity exists when requested. AEP will charge LCRA installation charges but no monthly fee.



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## FACILITY SCHEDULE NO. 12

1. Name: **McCamey**
2. Location: The McCamey Substation is in the City of McCamey, Texas in Upton County. There are four Points of Interconnection at the McCamey Substation. One is at the termination of the 138kV transmission line from the LCRA North McCamey Switchyard and the second is at the termination of the 138kV transmission line from the LCRA West Yates Switchyard. Both Points of Interconnection are at the point where the jumper conductors from the substation equipment physically contact the connectors on the 138kV transmission line conductors. There are two additional Points of Interconnection on phase B of the 138 kV transmission line from the LCRA North McCamey Switchyard where the jumper conductors from the wave trap physically contact the connectors on the 138 kV transmission line conductors on either side of the in-line insulator.
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:

- McCamey Substation and all the facilities within it including but not limited to the following:
  - two (2) wave traps and line tuners
  - two (2) CCVTs (3 phase)
  - one (1) 138 kV circuit breaker CB-3945
  - three (3) 138 kV switches 1547, 1548 and 3946
- structures that terminate all the 69 kV transmission lines into the station
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
  - McCamey to Rio Pecos 69 kV transmission line
  - McCamey to Big Lake 69 kV transmission line
- jumper conductors from the substation facilities to the Points of Interconnection
- structures that terminate the 138 kV transmission lines from LCRA West Yates Switchyard and LCRA North McCamey Switchyard

LCRA owns the following facilities:

- insulators (including the in-line suspension insulator and substation dead-end insulators), conductors, and hardware that terminate the LCRA North McCamey Switchyard and LCRA West Yates Switchyard 138kV transmission lines
- the following transmission lines comprised of easements, conductors, shield wires, insulators, and connecting hardware:
  - LCRA North McCamey Switchyard to LCRA West Yates Switchyard double circuit 138 kV transmission structures with single circuit installed, except the line tap at Desert Sky II and a portion of the McCamey Substation easement are owned by AEP

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates the McCamey substation and all the facilities within it.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

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

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.



### FACILITY SCHEDULE NO. 13

1. Name: **LCRA West Yates Switchyard**
2. Location: The LCRA West Yates Switchyard and the adjacent AEP West Yates Substation are located 3 miles west of Iraan, Texas in Pecos County. The Point of Interconnection is at the point where the jumper conductors from the AEP station equipment physically contact the connectors on the transmission line conductors in LCRA's portion of the station.
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 138/69 kV autotransformer and all associated equipment
- deadend structures that terminate all the 69 kV transmission lines into the substation
- jumper conductors from the AEP station facilities to the Point of Interconnection
- transmission line relay protection panels and all associated equipment for the AEP transmission lines
- the West Yates Substation to Fort Lancaster Substation 69 kV transmission line comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures
- a four-wire Remote Terminal Unit (RTU) communication circuit from the station to the AEP control center

LCRA owns the following facilities:

- West Yates Switchyard 138kV ring-bus and all associated facilities
- the RTU
- transmission line relay protection panels and all associated equipment for the LCRA transmission lines
- deadend structures that terminate all 138kV transmission lines into the West Yates Switchyard

- the 138 kV line from LCRA's portion of the station to AEP's portion of the station
- deadend structure that terminates the 138 kV line into AEP's portion of the station
- easements, conductors, shield wires, insulators, connection hardware, and structures of the following 138kV transmission lines:
  - LCRA West Yates Switchyard to the LCRA Mesa View Switchyard
  - LCRA West Yates Switchyard to LCRA North McCamey Switchyard double circuit structures with single circuit installed, except that the line tap at Desert Sky II and a portion of the McCamey Substation easement are owned by AEP

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the switchyard facilities and transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

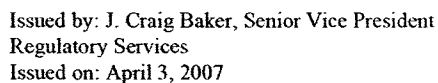
Each Party will be fully responsible for the costs and liabilities related to the facilities it owns.

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's SCADA will poll the 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 Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.





## FACILITY SCHEDULE NO. 14

1. Name: **Mesa View**
2. Location: The Mesa View Substation is located near Girvin, Texas in Pecos County. The Point of Interconnection is at the termination of the tap off of the 138 kV transmission line from the LCRA West Yates Switchyard to the LCRA Mesa View Switchyard where the jumper conductors from the station equipment physically contact the connectors on the 138 kV transmission tap 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:

- Mesa View Substation and all facilities within it
- deadend structure that terminates the transmission line tap into the station
- jumper conductors from the station facilities to the Point of Interconnection
- fiber facility entries including patch panel for the optical ground wire (OPGW) facilities inside the Mesa View control house

LCRA owns the following facilities:

- deadend structures and associated switches, hardware, and insulators on the LCRA West Yates Switchyard to LCRA Mesa View Switchyard 138 kV transmission line
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures;
  - LCRA Mesa View Switchyard to LCRA West Yates Switchyard 138 kV transmission line including OPGW from Mesa View Substation to Mesa View Switchyard

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates the Mesa View Substation and all the facilities within it.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

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

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.

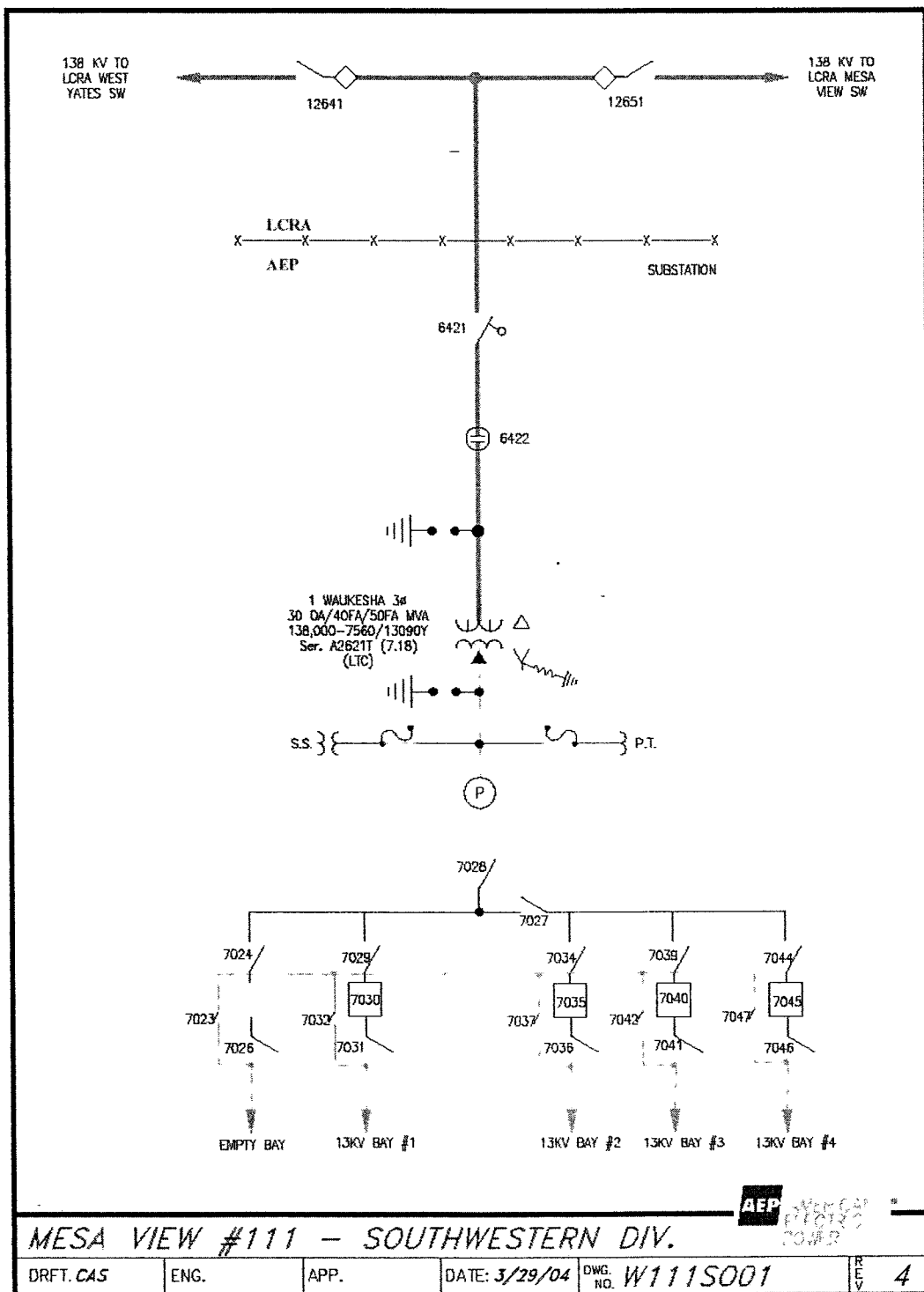
LCRA will assign AEP rights to fibers 19-24 of the OPGW to use in operating the AEP electric transmission system at both the Mesa View Substation and at the LCRA Mesa View Switching Station. The fibers may not be sublet or reassigned to 3<sup>rd</sup> party customers.

LCRA shall maintain and repair the OPGW fiber network for failures of individual OPGW segment failures. If a catastrophic fiber network failure occurs over multiple segments due to aging, manufacture defects, or other unexpected reasons it shall be LCRA's option to discontinue the assignment of fibers 19-24 to AEP.

AEP will assign LCRA rights and access, upon request and availability, to the following OPGW related facilities inside the AEP control house:

- facility entry fibers 1 thru 18
- patch panel rack space for LCRA communications equipment
- one 125VDC/200W power supply
- one 120VAC/15A power supply

AEP will provide LCRA with DS0 circuits on its T1 multiplexer network fibers if capacity exists when requested. AEP will charge LCRA installation charges but no monthly fee.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007

## FACILITY SCHEDULE NO. 15

1. Name: **LCRA Crane Switchyard**
2. Location: The LCRA Crane Switchyard and adjacent AEP Crane Substation are located near Crane, Texas in Crane County. There are two Points of Interconnection at this location. One is at the termination of the 138 kV transmission line from the Rio Pecos Substation where the jumper conductors from the LCRA Crane Switchyard physically contact the conductors on the transmission line. The other is at the termination of the 138 kV transmission line from the AEP Crane Substation where the jumper conductors from the LCRA Crane Switchyard equipment physically contact the connectors on the 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:

- AEP Crane Substation and all facilities within it
- deadend structures that terminate all transmission lines into the AEP Crane Substation
- the AEP Crane to Rio Pecos 138kV transmission line comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures
- the 138 kV line from the LCRA Crane Switchyard to the AEP Crane Substation
- a four-wire Remote Terminal Unit (RTU) communication circuit from the AEP Crane Substation to the AEP control center

LCRA owns the following facilities:

- LCRA Crane Switchyard and all facilities within it
  - fiber facility entries including patch panel for the optical ground wire (OPGW) facilities inside the LCRA Crane control house
- the RTU
- transmission line relay protection panels and all associated equipment for all of the transmission lines

- deadend structures that terminate all transmission lines into the switchyard
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
  - LCRA Crane Switchyard to Rio Pecos 138 kV transmission line including OPGW
  - LCRA Crane to LCRA North McCamey Switchyard double circuit 138 kV transmission line including OPGW
  - LCRA Crane Switchyard to ONCOR's Odessa EHV 138kV transmission line
  - LCRA Crane Switchyard to ONCOR's Midkiff 138kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the switchyard facilities and transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

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

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.

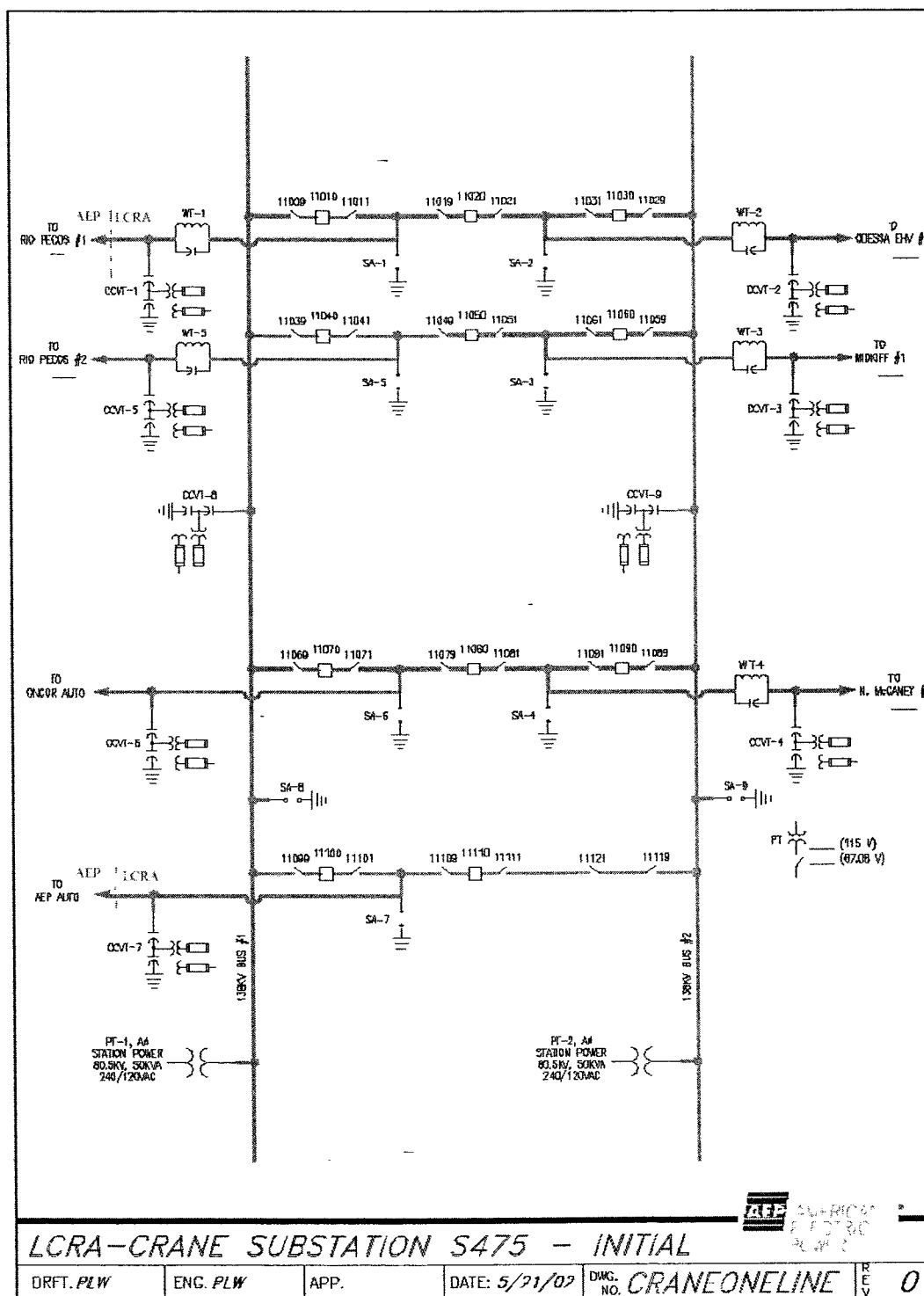
AEP's SCADA will poll the RTU installed at the station and LCRA will have access to the RTU data via a direct Inter-control Center Communications Protocol (ICCP) communication circuit between the Parties' control centers. The Parties will coordinate the analog and digital point list and communications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

LCRA will assign AEP rights and access, upon request and availability, to the following OPGW related facilities inside the LCRA control house to use in operating the AEP electric transmission system:

- facility entry fibers 19 thru 24 which may not be sublet or reassigned to 3<sup>rd</sup> party customers
- patch panel rack space for AEP communications equipment
- one 125VDC/200W power supply
- one 120VAC/15A power supply

LCRA shall maintain and repair the OPGW fiber network for failures of individual OPGW segment failures. If a catastrophic fiber network failure occurs over multiple segments due to aging, manufacture defects, or other unexpected reasons it shall be LCRA's option to discontinue the assignment of fibers 19-24 to AEP.

AEP will provide LCRA with DS0 circuits on its T1 multiplexer network fibers if capacity exists when requested. AEP will charge LCRA installation charges but no monthly fee.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007



### FACILITY SCHEDULE NO. 16

1. Name: **Spudder Flats**
2. Location: The Spudder Flats Substation is located near McCamey, Texas in Crane County. The Point of Interconnection is where the jumper conductors from the substation equipment physically contact the connectors on the conductors of the 138 kV transmission line from the Rio Pecos Substation to LCRA Crane Switching Station.
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:

  - Spudder Flats Substation and all facilities within it.
  - jumper conductors from the station facilities to the Point of Interconnection.

LCRA owns the following facilities:

  - deadend structures and associated switches, insulators, and hardware that connects the substation to the transmission line
  - the following 138 kV transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
    - 138 kV transmission line from AEP's Rio Pecos Substation to LCRA's Crane Switching Station including OPGW
8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

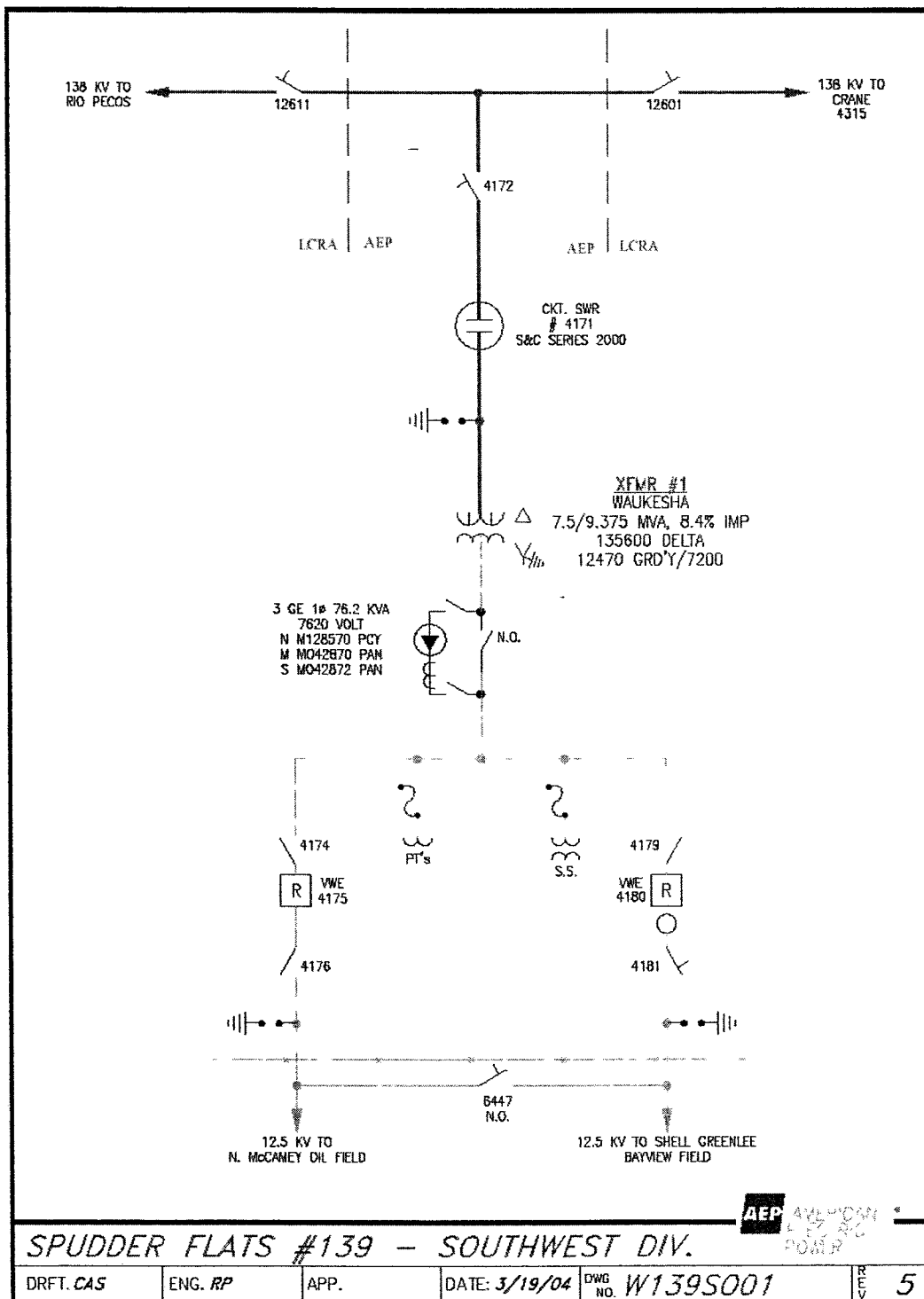
Each Party maintains the facilities it owns that are provided for in this Facility Schedule.

9. Cost Responsibilities of the Parties:

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

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.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007

### FACILITY SCHEDULE NO. 17

1. Name: **Rio Pecos**
2. Location: The Rio Pecos Station is located near Girvin, Texas in Pecos County. There are four Points of Interconnection at the Rio Pecos Substation. Two are at the termination of the double circuit 138 kV transmission line from the LCRA North McCamey Switchyard, another is at the termination of the 138 kV transmission line from the LCRA Crane Switchyard, and the other is at the termination of the 138 kV transmission line from the LCRA Mesa View Switchyard. All the 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:

- Rio Pecos Station and all facilities within it, except those facilities identified below as owned by LCRA
- transmission line relay protection panels and all associated equipment for all the transmission lines
- deadend structures that terminate all the transmission lines into the station
- jumper conductors from the station facilities to the Points of Interconnection
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures;
  - Rio Pecos to McCamey 69 kV transmission line
  - Rio Pecos to Fort Stockton Switching Station 69 kV transmission line
  - Rio Pecos to Fort Stockton 138 kV transmission line
  - Rio Pecos to WTU Crane 138 kV transmission line
- a four-wire Remote Terminal Unit (RTU) communication circuit from the station to the AEP control center
- the RTU
- fiber facility entries including patch panel for the optical ground wire (OPGW) facilities inside the Rio Pecos control house

LCRA owns the following facilities:

- fiber facility entries including patch panel for the optical ground wire (OPGW) facilities inside the Rio Pecos control house
- insulators and hardware on the deadend structures that terminate the 138 kV transmission lines from the LCRA North McCamey Switchyard, LCRA Crane Switchyard, and LCRA Mesa View Switchyard stations
- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
  - Rio Pecos to LCRA North McCamey Switchyard double circuit 138 kV transmission line
  - Rio Pecos to LCRA Mesa View Switchyard 138 kV transmission line including OPGW
  - Rio Pecos to LCRA Crane Switchyard 138 kV transmission line including OPGW

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

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

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's SCADA 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 Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.

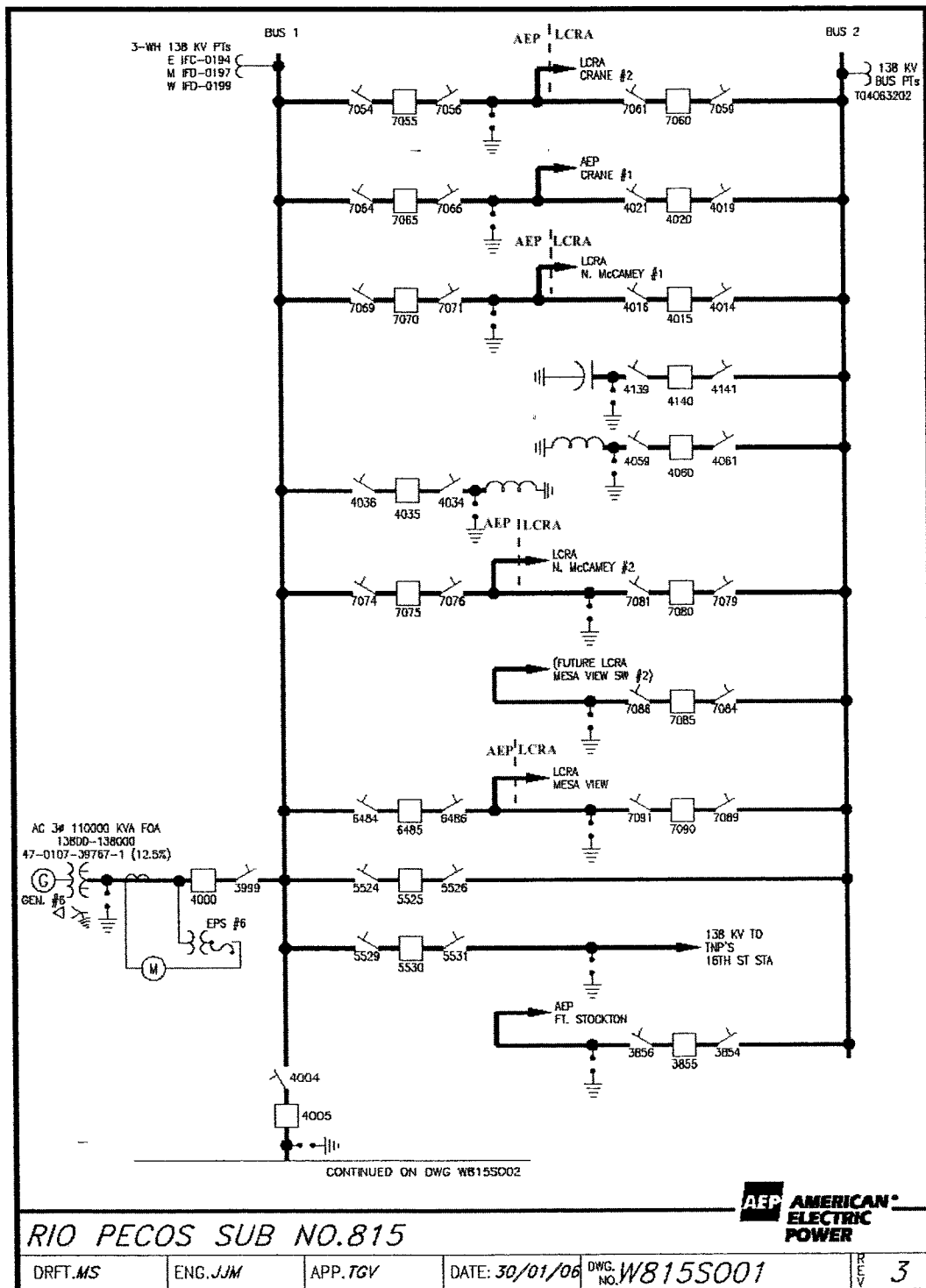
LCRA will assign AEP rights to fibers 19-24 of the OPGW to use in operating the AEP electric transmission system. The fibers may not be sublet or reassigned to 3<sup>rd</sup> party customers.

LCRA shall maintain and repair the OPGW fiber network for failures of individual OPGW segment failures. If a catastrophic fiber network failure occurs over multiple segments due to aging, manufacture defects, or other unexpected reasons it shall be LCRA's option to discontinue the assignment of fibers 19-24 to AEP.

AEP will assign LCRA rights and access, upon request and availability, to the following OPGW related facilities inside the AEP control house:

- facility entry fibers 1 thru 18
- patch panel rack space for LCRA communications equipment
- one 125VDC/200W power supply
- one 120VAC/15A power supply

AEP will provide LCRA with DS0 circuits on its T1 multiplexer network fibers if capacity exists when requested. AEP will charge LCRA installation charges but no monthly fee.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007

### FACILITY SCHEDULE NO. 18

1. Name: **Indian Mesa**
2. Location: The Indian Mesa Substation is located near Girvin, Texas in Pecos County. There are two Points of Interconnection at the Indian Mesa Substation. One Point of Interconnection is at the termination of the 138 kV transmission line from the Rio Pecos Substation. The second Point of interconnection is at the termination of the 138 kV transmission line from the LCRA Mesa View Switchyard. Both Points of Interconnection are at the point where the jumper conductors from the station 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:

  - Indian Mesa Substation and all facilities within it.
  - deadend structures and associated switches that terminate all transmission lines into the station.
  - jumper conductors from the station facilities to the Points of Interconnection.
  - fiber facility entries including patch panel for the optical ground wire (OPGW) facilities inside the Indian Mesa control house

LCRA owns the following facilities:

  - deadend structures, conductors, hardware, and insulators at the termination of the 138 kV transmission lines from the LCRA Mesa View Switchyard and the Rio Pecos Substation.
  - the following 138 kV transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures;
    - Indian Mesa to LCRA Mesa View Switchyard including OPGW
    - Indian Mesa to Rio Pecos Substation including OPGW
8. Facility Operation and Maintenance Responsibilities of the Parties:



AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

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

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.

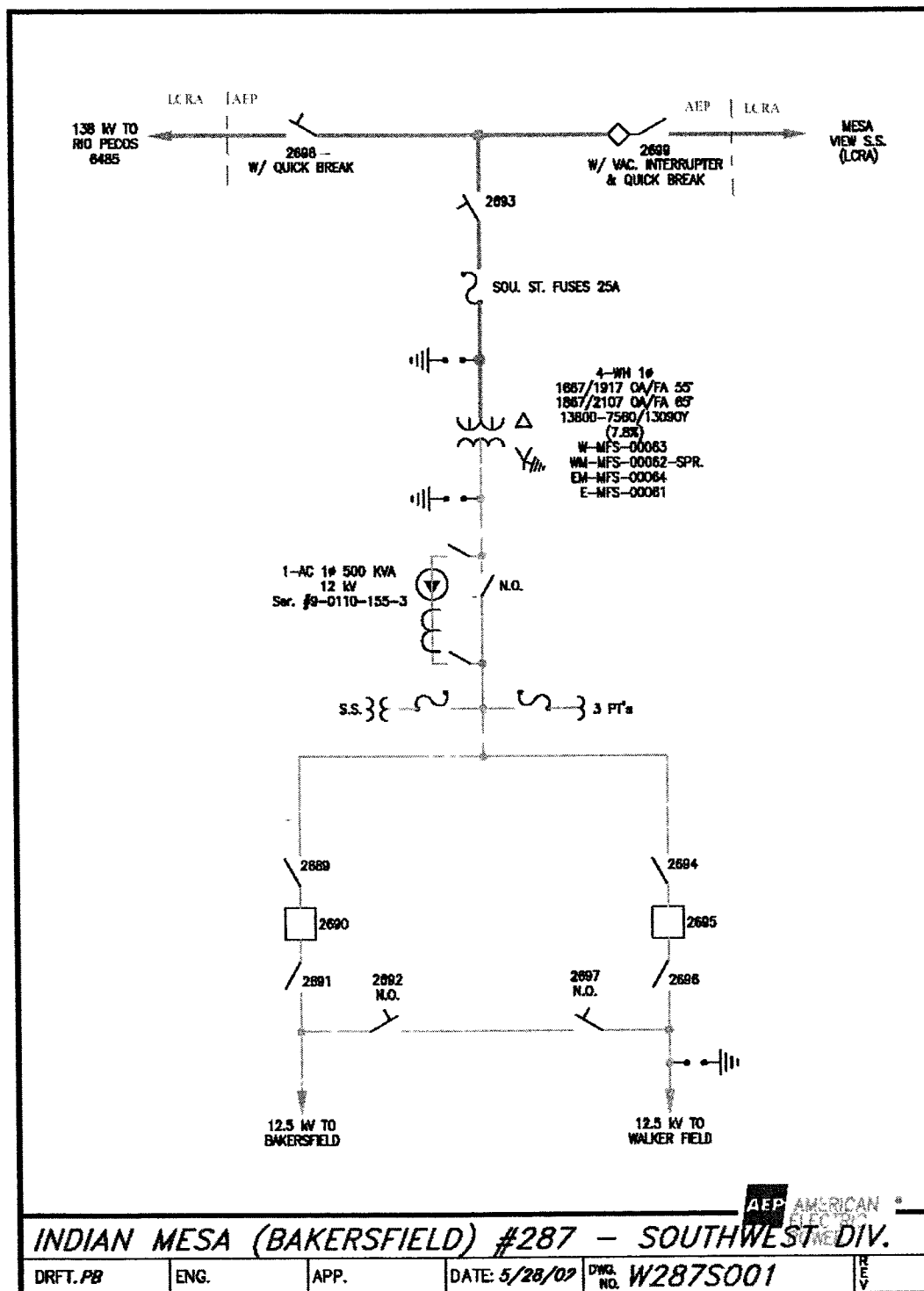
LCRA will assign AEP rights to fibers 19-24 of the OPGW to use in operating the AEP electric transmission system. The fibers may not be sublet or reassigned to 3<sup>rd</sup> party customers.

LCRA shall maintain and repair the OPGW fiber network for failures of individual OPGW segment failures. If a catastrophic fiber network failure occurs over multiple segments due to aging, manufacture defects, or other unexpected reasons it shall be LCRA's option to discontinue the assignment of fibers 19-24 to AEP.

AEP will assign LCRA rights and access, upon request and availability, to the following OPGW related facilities inside the AEP control house:

- facility entry fibers 1 thru 18
- patch panel rack space for LCRA communications equipment
- one 125VDC/200W power supply
- one 120VAC/15A power supply

AEP will provide LCRA with DS0 circuits on its T1 multiplexer network fibers if capacity exists when requested. AEP will charge LCRA installation charges but no monthly fee.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007

## FACILITY SCHEDULE NO. 19

1. Name: **Twin Buttes 138 kV Switchyard**
2. Location: The Twin Buttes 138 kV Switchyard is approximately 5 miles from the Big Lake to San Angelo Power Station 138 kV transmission line near San Angelo, Texas in Tom Green County. The Point of Interconnection is at the termination of the 138 kV transmission line from the Big Lake Substation where jumper conductors from switchyard equipment physically contact 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:

- a four-wire Remote Terminal Unit (RTU) communication circuit from the Twin Buttes Switchyard to the AEP control center
- 138 kV transmission line comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures from LCRA's double-pole deadend transmission structure to AEP's Big Lake Substation
- 138kV transmission line comprised of only the easements, conductors, shield wires, insulators, and connecting hardware from LCRA's double-pole deadend transmission structure to the Twin Buttes Switchyard

LCRA owns the following facilities:

- Twin Buttes Switchyard and all facilities within it
- the RTU
- transmission line relay protection panels and all associated equipment for all the transmission lines
- deadend structures that terminate all transmission lines into the station
- double-pole deadend transmission structure that turns in the AEP 138 kV transmission line from the Big Lake Substation and the LCRA 138kV transmission from the San Angelo Power Station

- all the transmission line structures from the double-pole deadend structure to the Twin Buttes Switchyard
- the 138 kV transmission line comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures to AEP's San Angelo Power Station

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the switchyard facilities and transmission lines owned by 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.

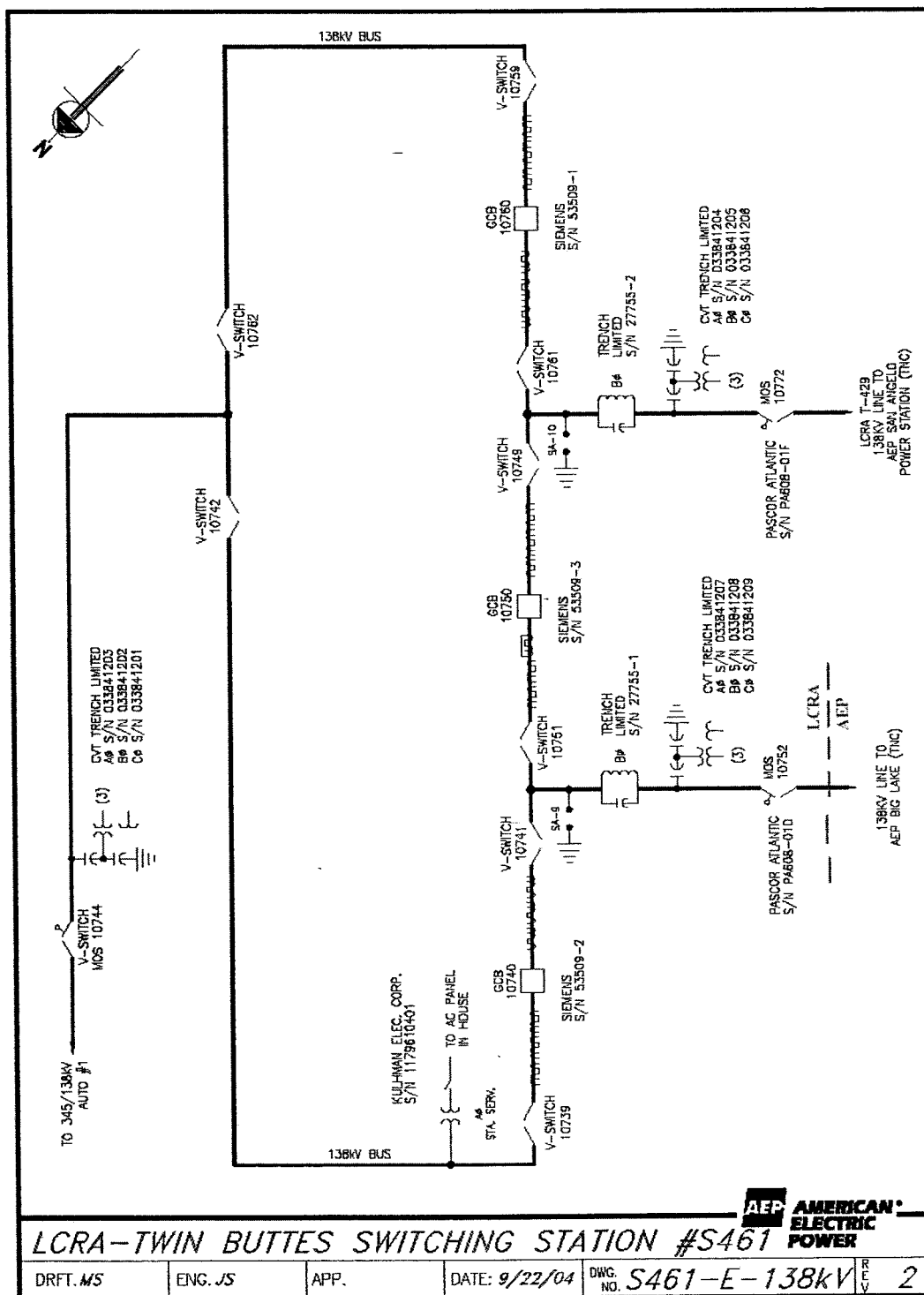
9. Cost Responsibilities of the Parties:

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

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's SCADA will poll the 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 Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007

## FACILITY SCHEDULE NO. 20

1. Name: **Red Creek**
2. Location: The Red Creek Substation is northeast of the City of San Angelo, Texas in Tom Green County. There are two Points of Interconnection at the Red Creek Substation. One is at the termination of the 345 kV transmission line from the Twin Buttes Switchyard and the other is at the termination of the 345 kV transmission line from TXU's Comanche Switching Station. Both Points of Interconnection are at the point where the jumper conductors from the substation equipment physically contact the connectors on the 345 kV transmission line conductors.
3. Delivery Voltage: 345 kV
4. Metered Voltage: 345 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:

- Red Creek Substation and all the facilities within it
- the Remote Terminal Unit (RTU)
- transmission line relay protection panels and all associated equipment for the LCRA transmission lines
- deadend structures that terminate all transmission lines into the station
- the following transmission lines comprised of easements, shield wires, conductors, insulators, connecting hardware, and structures:
  - Red Creek to Mulberry Creek 345 kV transmission line
  - Red Creek to Oak Creek 138 kV transmission line
  - Red Creek to North Angelo 138 kV transmission line
  - Red Creek to Concho 138 kV transmission line
  - Red Creek to Ballinger 138 kV transmission line
  - Red Creek to San Angelo Power Station 138 kV transmission line
- jumper conductors from the station to the Points of Interconnection
- a four-wire RTU communication circuit from the station to the AEP control center

LCRA owns the following facilities:

- the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
  - Red Creek to Twin Buttes 345 kV transmission line
  - Red Creek to TXU's Comanche Switching Station 345 kV transmission line

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

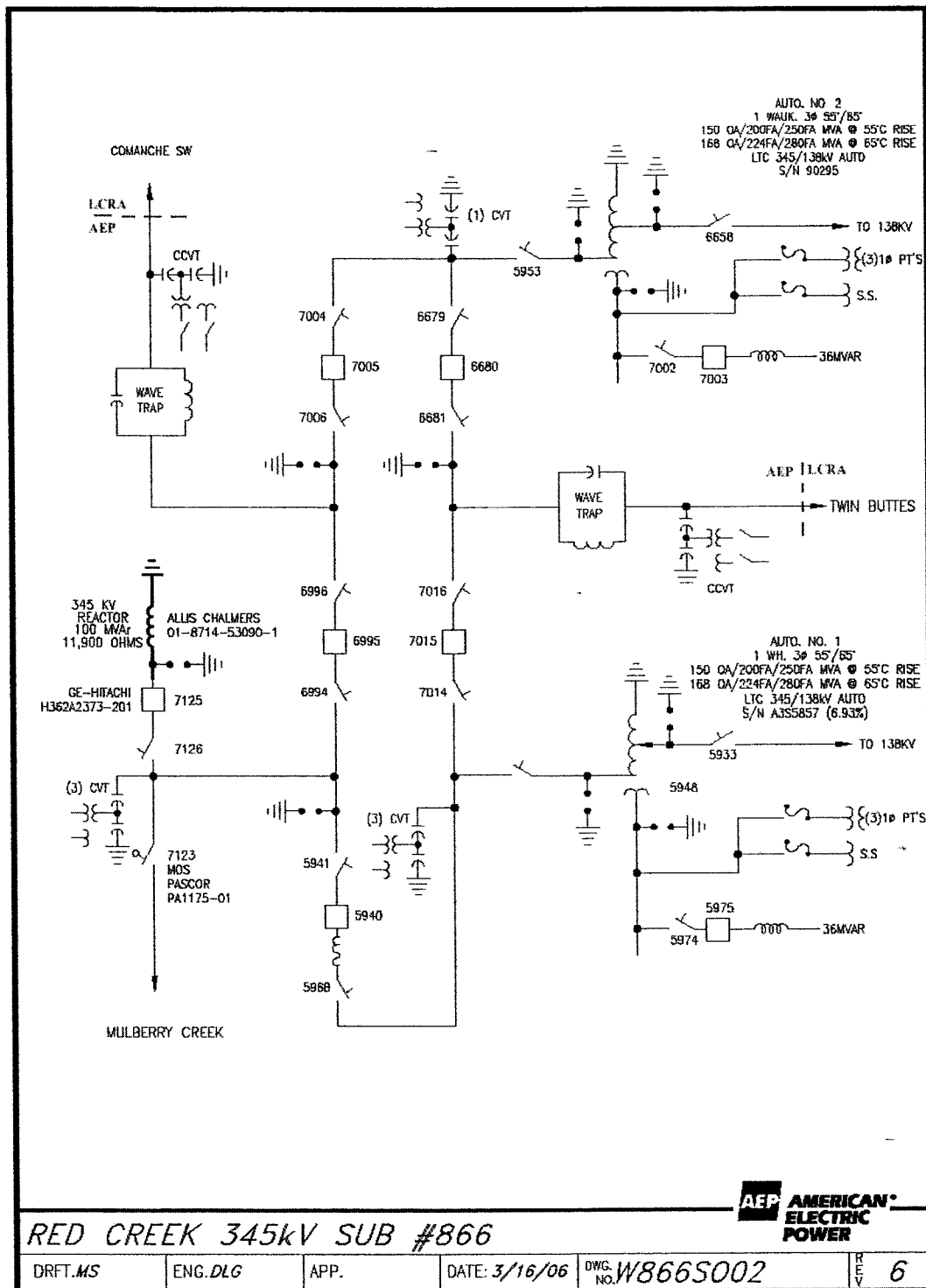
9. Cost Responsibilities of the Parties:

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

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's SCADA 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 Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007



## FACILITY SCHEDULE NO. 21

1. Name: **San Angelo Power Station**
2. Location: The San Angelo Power Station is located in San Angelo, Texas in Tom Green County. The Point of Interconnection is at the termination of the 138 kV transmission line from the Twin Buttes 138 kV Switchyard where the jumper conductors from the station 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:

- San Angelo Power Station and all the facilities within it
- the Remote Terminal Unit (RTU)
- transmission line relay protection panel and all associated equipment for the LCRA transmission line
- deadend structures that terminate all transmission lines into the station
- 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:
  - San Angelo Power Station to Red Creek 138 kV transmission line
  - San Angelo Power Station to Concho 138 kV transmission line
  - San Angelo Power Station to Live Oak 138 kV transmission line
  - San Angelo Power Station to College Hills 138 kV transmission line
  - San Angelo Power Station to Menard 138 kV transmission line
  - San Angelo Power Station to College Hills 69 kV transmission line
  - San Angelo Power Station to Concho 69 kV transmission line
- a four-wire RTU communication circuit from the station to the AEP control center

LCRA owns the following facilities:

- 138 kV transmission line comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures, from the Twin Buttes 138 kV Switchyard to the San Angelo Power Station

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

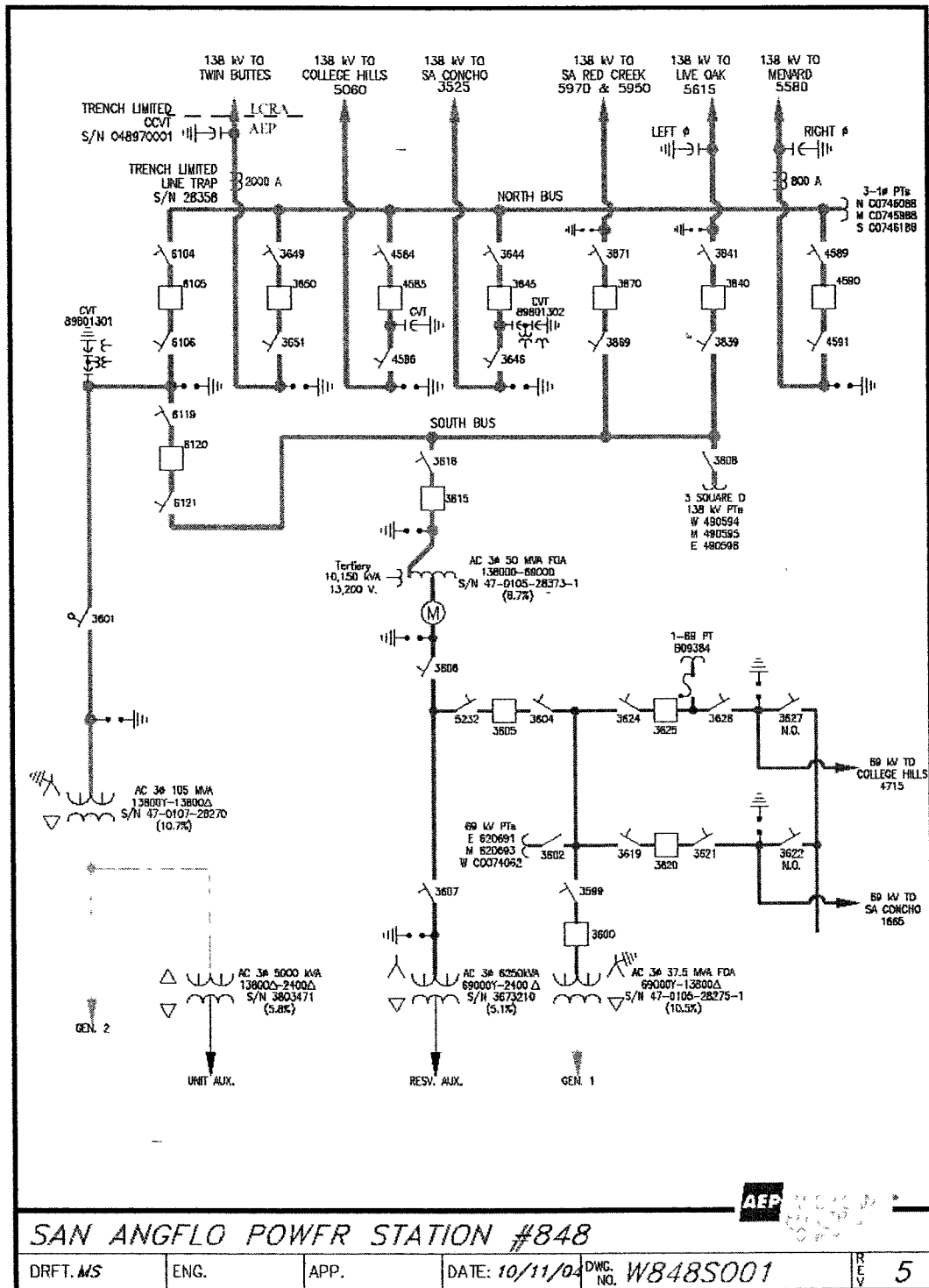
9. Cost Responsibilities of the Parties:

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

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's SCADA will poll the 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 Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007

## FACILITY SCHEDULE NO. 22

1. Name: **South Abilene**
2. Location: The South Abilene Substation is located near the City of Abilene, in Taylor County, Texas. The Point of Interconnection is at the termination of the 138 kV transmission line from TXU's Eskota 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 South Abilene Substation and all facilities within it
- the Remote Terminal Unit (RTU)
- transmission line relay protection panel and all associated equipment for the LCRA transmission line
- deadend structures that terminate all transmission lines into the station
- jumper conductors from the station to the Point of Interconnection
- the easements, conductors, shield wires, insulators, connecting hardware, and structures of the following transmission lines:
  - South Abilene to Elm Creek 69 kV transmission line
  - South Abilene to Abilene Over St 69 kV transmission line
  - South Abilene to Abilene Plant 69 kV transmission line
  - South Abilene to Ballinger 69 kV transmission line
  - South Abilene to Putnam 138 kV transmission line
  - South Abilene to Oak Creek 138 kV transmission line
  - South Abilene to Elm Creek 138 kV transmission line
  - South Abilene to East Abilene 138 kV transmission line
  - South Abilene to Ft Phantom 138 kV transmission line
- a four-wire RTU communication circuit from the substation to the AEP control center

LCRA owns the following facilities:

- South Abilene to Eskota 138 kV transmission line comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the transmission lines owned by 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.

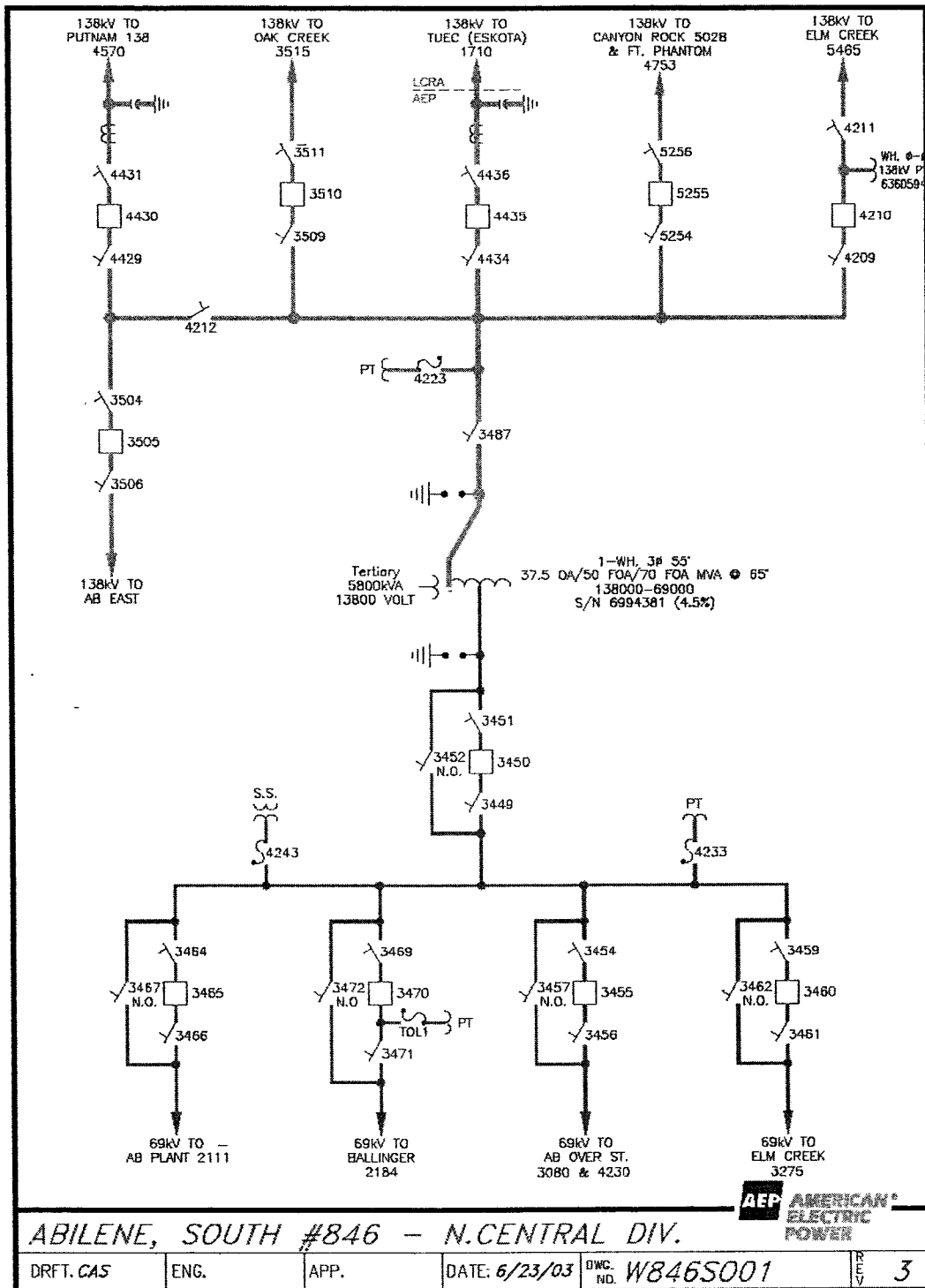
9. Cost Responsibilities of the Parties:

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

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's SCADA will poll the 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 Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.



Issued by: J. Craig Baker, Senior Vice President  
Regulatory Services  
Issued on: April 3, 2007

Effective Date: March 16, 2007

### FACILITY SCHEDULE NO. 23

1. Name: **\_ LCRA Fort Lancaster Switchyard**
2. Location: The LCRA Fort Lancaster Switchyard and adjacent Fort Lancaster Substation are located near Fort Lancaster, Texas in Crockett County. The Point of Interconnection is at the point where the jumper conductors from the substation equipment physically contact the connectors on the conductors in the switchyard.
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 Fort Lancaster Substation including the 138/69kV autotransformer and associated equipment
    - deadend structures that terminate all the 69kV transmission lines into the station
    - the following transmission lines comprised of easements, conductors, shield wires, insulators, connecting hardware, and structures:
      - Fort Lancaster to West Yates 69 kV transmission line
      - Fort Lancaster to Illinois #4 69 kV transmission line
    - a four-wire Remote Terminal Unit (RTU) communication circuit from the station to the AEP control center
  - LCRA owns the following facilities:
    - the LCRA Fort Lancaster Switchyard including the 138kV ring bus and associated equipment
    - fiber facility entries including patch panel for the optical ground wire (OPGW) facilities inside the LCRA Fort Lancaster Switchyard control house
    - the RTU
    - transmission line relay protection panels and all associated equipment for the LCRA transmission lines
    - deadend structures that terminate all the 138kV transmission lines into the station

- the easements, conductors, shield wires, insulators, connecting hardware, and structures of the following 138 kV transmission lines:
  - LCRA Fort Lancaster Switchyard to LCRA Mesa View Switchyard including OPGW
  - LCRA Fort Lancaster Switchyard to Friend Ranch Substation including OPGW

8. Facility Operation and Maintenance Responsibilities of the Parties:

AEP controls and operates all the facilities it owns that are provided for in this Facility Schedule.

AEP coordinates, directs, and performs all control center and field operation activities on the switchyard facilities and transmission lines owned by 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.

9. Cost Responsibilities of the Parties:

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

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's SCADA will poll the 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 Parties' control centers. The Parties will coordinate the analog and digital point list and communications protocol issues.

LCRA will assign AEP rights and access, upon request and availability, to the following OPGW related facilities inside the LCRA control house to use in operating the AEP electric transmission system:

- facility entry fibers 19 thru 24 which may not be sublet or reassigned to 3<sup>rd</sup> party customers
- patch panel rack space for AEP communications equipment
- one 125VDC/200W power supply



- one 120VAC/15A power supply

LCRA shall maintain and repair its OPGW fiber network for failures of individual OPGW segment failures. If a catastrophic fiber network failure occurs over multiple segments due to aging, manufacture defects, or other unexpected reasons it shall be LCRA's option to discontinue the assignment of fibers 19-24 to AEP.

AEP will provide LCRA with DS0 circuits on its T1 multiplexer network fibers if capacity exists when requested. AEP will charge LCRA installation charges but no monthly fee.

