

2000 TXU SERVICE POLES - ETC

**Tariff for Electric Service  
TXU Electric Company**

3.3 Municipal Service  
Applicable: Entire System  
Effective Date: December 29, 1999

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Revision: Three

### 3.3.3 Rate SL - Street Lighting Service

#### Application

Applicable to governmental entities for street lighting and overhead sign lighting service to areas served at retail by Company. Overhead sign lighting is available only under the provisions of Schedule D of the Monthly Rate - Unmetered Facilities or the Monthly Rate - Metered Facilities - NonCompany Owned provisions.

Not applicable to temporary, shared, standby, supplementary, maintenance, or resale service.

#### Type of Service

Single or three phase, 60 hertz, at any of the Company's standard secondary or primary service voltages as required by Customer. Where existing distribution facilities are not adjacent to the point of delivery, additional charges and special contract arrangements between the Company and Customer may be required prior to its being furnished. If Customer takes service at primary voltage, Company may at its option meter service on the secondary side of Customer's transformers and adjust for transformer losses in accordance with Company's Tariff for Electric Service.

#### Monthly Rate - Unmetered Facilities

Customer Charge: \$25.00 per governmental entity.

Luminaire Charge, per Luminaire									
Lamp	Watts	Lumens	kWh	Schedule				Rect- angular	Post-Top
				A	B	C	D		
Mercury Vapor	175	7,900	70	\$8.40	\$16.50	\$3.90	\$2.65	\$20.45	\$13.00
	400	21,000	150	\$12.35	\$20.05	\$7.30	\$5.65	N.A.	N.A.
	1,000	63,000	370	\$27.40	\$36.10	\$19.40	\$13.90	N.A.	N.A.
Sodium Vapor	100	9,500	40	\$7.55	\$15.65	\$3.00	\$1.50	\$20.60	\$12.35
	150	16,000	70	\$9.50	\$17.15	\$4.65	\$2.65	\$25.65	N.A.
	200	22,000	80	\$10.35	\$17.95	\$5.10	\$3.00	\$26.05	N.A.
	250	27,500	100	\$10.90	\$18.50	\$5.85	\$3.75	\$26.55	N.A.
	400	50,000	160	\$15.50	\$25.55	\$9.25	\$6.00	\$38.75	N.A.
	1,000	140,000	375	\$30.05	\$40.15	\$21.05	\$14.05	\$52.45	N.A.
Metal Halide	175	14,000	65	\$10.15	\$18.30	\$5.50	\$2.45	\$22.85	\$18.15
	250	25,000	100	\$12.93	\$22.10	\$7.48	\$4.05	\$33.22	N.A.
	400	36,000	160	\$15.70	\$25.85	\$9.45	\$5.65	\$43.55	N.A.
	1,000	110,000	370	\$28.75	\$38.85	\$20.70	\$13.70	\$53.25	N.A.
Other									
Incandescent*	All		\$7.55						
Wallpack Mercury Vapor*	250W		\$17.60						
Fluorescent*	\$21.50								
Historical	\$21.30								
*Closed to new street lighting installations									

*TXU home power Rates + Regulations*

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Fuel Cost: Plus an amount for fuel cost calculated in accordance with Rider FC.

Power Cost: Plus an amount for purchased power cost calculated in accordance with Rider PCR.

Payment: Bills are due when rendered and become past due if not paid within 16 days thereafter. Bills are increased by 5% if not paid within 20 days after being rendered.

**Monthly Rate - Metered Facilities - NonCompany-Owned**

Applicable for electric service supplied at one point of delivery and measured through one meter to customer owned, operated and maintained street and highway lighting, overhead sign lighting, and incidental safety lighting equipment which operates same hours as normal street lighting.

Charge	Amount
Customer	\$15.00
Energy	3.75 ¢ per kWh

*3.44*

Fuel Cost: Plus an amount for fuel cost calculated in accordance with Rider FC.

Power Cost: Plus an amount for purchased power cost calculated in accordance with Rider PCR.

Payment: Bills are due when rendered and become past due if not paid within 16 days thereafter. Bills are increased by 5% if not paid within 20 days after being rendered.

**Monthly Rate - Metered Facilities - Company-Owned (Closed to new installations)**

Charge	Amount
Customer	\$25.00
Energy	14.00 ¢ per kWh

Fuel Cost: Plus an amount for fuel cost calculated in accordance with Rider FC.

Power Cost: Plus an amount for purchased power cost calculated in accordance with Rider PCR.

Payment: Bills are due when rendered and become past due if not paid within 16 days thereafter. Bills are increased by 5% if not paid within 20 days after being rendered.

**Definitions**

Schedule A applies to:

- Group 1 Company installed, owned, operated, and maintained street lights mounted on wood poles and served overhead.
- Group 2 Company installed, owned, operated, and maintained street lights mounted on wood, steel, or ornamental poles of a type normally used by Company, and served overhead or underground, and customer or developer has contributed to Company an amount equivalent to the difference between the total installed cost of such street lighting and the total installed cost of an equivalent lighting system mounted on wood poles and served overhead.

Schedule B applies to:

- Group 1 Company installed, owned, operated, and maintained street lights mounted on steel or other ornamental poles of a type normally used by Company and served overhead. If the number of steel and/or other ornamental poles exceeds the number of such poles on which lights are mounted, there will be an additional charge of \$5.30 per month for each such excess pole. Where two street lights with lamps of the same size are mounted on the same steel and/or other ornamental pole, Schedule B applies to one of the lights and Schedule A to the other.
- Group 2 Company installed, owned, operated, and maintained street lights mounted on steel or other ornamental poles of a type normally used by Company and served underground, and Customer or developer has contributed to Company an amount equivalent to the difference between the total installed cost of the underground circuits serving the street lights and the total installed cost of overhead circuits. Where two street lights with lamps of the same size are mounted on the same steel and/or other ornamental pole, Schedule B applies to one of the lights and Schedule A to the other.

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Schedule C\* applies to:

Group 1

Street lights installed for the use of Customer by Customer or by a governmental subdivision. All equipment replacement and maintenance is performed by Customer or the governmental subdivision. Company provides lamp replacement service only which includes lamp and labor (unless otherwise requested in writing by Customer).

Group 2

Company owned street lights mounted on steel or other ornamental poles of a type not normally used by Company, and Customer or a developer has contributed to Company an amount equivalent to the entire construction cost of the street lighting facilities including luminaires and circuits.

\*Company operates all street lights under Schedule C (must be of a type suitable for use with the lamp sizes provided for herein) and makes all normal lamp replacements which includes lamp and labor at its expense. All other maintenance will be billed to Customer on the basis of actual costs including appropriate overhead expenses.

Schedule D applies to:

Customer operated and maintained street lights and overhead sign lights or where such lights are installed by a governmental subdivision for the use of Customer, and Company supplies only power and energy to Customer for the operation of the street lights or overhead sign lights.

Rectangular, Post-Top and Historical apply to:

Company installed, owned, operated, and maintained street lights mounted on steel or other ornamental poles of a type normally used by Company and served either overhead or underground.

### **Conversion of Mercury Vapor Luminaires to Sodium Vapor**

Company will convert existing Company-owned mercury vapor luminaires to sodium vapor luminaires upon request of and payment by Customer of \$73.00 for each luminaire to cover the labor cost of removal and Company's average unamortized investment in the mercury vapor luminaires. This charge is applicable to such conversions whether or not an agreement for electric service is in force, street light is active or inactive, or a customer change has taken or is taking place.

### **Special Conditions**

For billing purposes the monthly street lighting and overhead sign lighting burning hours are 333 and all connections and disconnections are assumed to have occurred at the beginning of the current month's billing period.

Customer owned unmetered lamps other than those of the lamp sizes shown under Schedule D are billed under the metered rate and the amount of monthly energy is determined by multiplying the connected load (including ballast) by the number of burning hours.

Company reserves the right to discontinue service at locations where excessive maintenance and/or lamp replacement occur, or Company may charge customer for such maintenance and/or lamp replacements. Company makes all connections and disconnections to its distribution system.

### **Agreement**

An Agreement for Electric Service with a term of not less than ten years is required.

### **Notice**

Service hereunder is subject to the orders of regulatory bodies having jurisdiction and to the Company's Tariff for Electric Service.

10-24-00

## TXU Contacts

Greg Hilton 972-323-8913

Jeanne Hooker 972-888-1302

Communications Center 972-791-2888

Bill Waldrup  
(Fixing Lights) 214-812-4235

Jody Smith  
(Engineering)

TXU

8/00

## Pulling Poles

Denny Burns:

TXU knows who else "occupies" their poles. It is TXU's job to get the poles cleared of all occupants so the pole(s) can be pulled. They normally work from the "top down".

Services (risers, meters, etc.) would be removed by the owner of the service.

Greg Hilton: Greg does not know who is on the poles. Jimmy Cox and/or Jerry Bryan have this info. When TXU is off the poles, Greg calls a utilities coordinator who is supposed to contact the occupants. Sometimes there are "pirate" occupants - on the poles w/o TXU's knowledge.

10/00

TXU — To apply for service:

Call — New Const. Mgt Center

1-800-711-9112

Say "Need to apply for new service  
at \_\_\_\_\_."  
address

Then, have Bruce or Leo inspect  
the installation. They fax a "release"  
to TXU. The meter will then be installed.

ask / will give an account #

# Appendix A : DIS Symbology Charts

TXU



# TU DIS SYMBOLOGY

## STRUCTURES

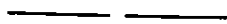
- ⊕ TU 30' wood pole (*yellow*)
- TU 35' wood pole (*yellow*)
- ⊖ TU 40' wood pole (*yellow*)
- ⊗ TU 45' wood pole (*yellow*)
- ⊙ TU 50' wood pole (*yellow*)
- ⊕ 55 TU other height wood pole (*yellow*)
- ⬡ TU non-wood pole (*yellow*)
- ✱ Foreign owned pole (*yellow*)
- ⊠ Transmission structure (*yellow*)
- Miscellaneous structure (*cyan*)
- ◇ TU primary pull box (*yellow*)
- ◇ Foreign primary pull box (*cyan*)
- ⤿ TU primary subsurface box (*yellow*)
- ⤿ Foreign primary subsurface box (*cyan*)
- Connection enclosure (*yellow*)
- ⊠ Secondary box below grade (*yellow*)
- ⊠ Secondary box above grade (*yellow*)
- ▭ Vault (*yellow*)
- ⊙ Manhole (*yellow*)
- ▭ Pad (*yellow*)
- ⊠ TU street light standard (*yellow*)
- ⊠ Foreign street light standard (*cyan*)
- ★ Substation (*red*)
- ⊠ UG junction point (*yellow*)

# TU DIS SYMBOLOGY

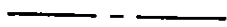
## CONDUCTORS



OH Primary 3 phase or primary buss  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



OH Primary 2 phase  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



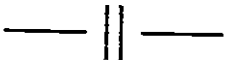
OH Primary 1 phase  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



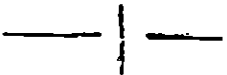
Neutral ( blue )



UG Primary 3 phase  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



UG Primary 2 phase  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



UG Primary 1 phase  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



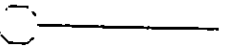
Secondary conductor or buss ( blue )



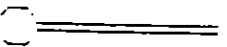
Street light ( pink )



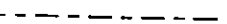
OH service ( cyan )



UG direct bury service ( cyan )



UG service in conduit ( pink )



Communication cable ( blue )



Control cable ( blue )



Foreign conductor ( cyan )



Substation buss ( red )



Conductor tap ( = to conductor )



Conductor splice ( = to conductor )



Conductor jumper - no connection ( = to conductor )



Conductor change ( = to conductor )



Circuit opening ( = to conductor )

# TU DIS SYMBOLOGY

## TRANSFORMERS



OH or UG closed - single phase or unknown  
( OH = white, UG = red )



OH or UG closed - open wye open delta  
( OH = white, UG = red )



OH or UG closed - delta delta  
( OH = white, UG = red )



OH or UG closed - delta wye  
( OH = white, UG = red )



OH or UG closed - wye wye  
( OH = white, UG = red )



OH or UG closed - wye delta  
( OH = white, UG = red )



OH open delta open delta (white)



UG open - single phase or unknown (green)



UG open - open wye open delta (green)



UG open - delta delta (green)



UG open - delta wye (green)



UG open - wye wye (green)



UG open - wye delta (green)



Auto transformer (white)



Substation transformer (red)

# TU DIS SYMBOLOGY

## SWITCHING DEVICES



Closed switch (red)



Closed disconnect (red)



Closed vacuum switch (red)



Closed breaker (red)



Closed feed thru device (red)



Closed fuse position (purple)



Open switch (green)



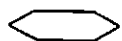
Open disconnect (green)



Open vacuum switch (green)



Open breaker (green)



Open feed thru device (green)



Open fuse position (purple)



Padmounted switch gear  
(grey, individual devices as defined)



Automatic transfer switch gear  
(grey, individual devices as defined)

# TU DIS SYMBOLOGY

## DEVICES



Recloser  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



Reguiator  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



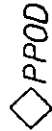
Capacitor  
( <5 KV=brown, 5-24 KV=orange, 25 KV> =green )



Reactor ( white )



Surge arrester ( grey )



Primary point of delivery ( grey )



Customer owned generation ( grey )













Fault indicator ( grey )



Electronic marker ( grey )


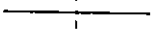
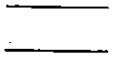


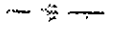
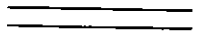




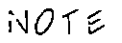
# TU DIS SYMBOLOGY

## LIGHTING

-  Incandescent  
( TU=pink, foreign=cyan, area light=blue )
-  High pressure sodium  
( TU=pink, foreign=cyan, area light=blue )
-  Mercury vapor  
( TU=pink, foreign=cyan, area light=blue )
-  Flourescent  
( TU=pink, foreign=cyan, area light=blue )
-  Metal halide  
( TU=pink, foreign=cyan, area light=blue )
-  Aviation obstruction  
( TU=pink, foreign=cyan, area light=blue )
-  Street light control  
( TU=pink, foreign=cyan, area light=blue )
-  Multiple street light ( pink )
-  Guard light ( blue )
-  Flood light ( blue )

# TU DIS SYMBOLOGY

## MISCELLANEOUS EQUIPMENT

	Down guy ( <i>brown</i> )
	Span guy ( <i>brown</i> )
	Rack ( <i>brown</i> )
	Secondary riser ( <i>tan</i> )
	Primary riser ( <i>tan</i> )
	Conduit - structure to structure ( <i>green</i> )
	Conduit - Non-structure to structure ( <i>green</i> )
	Duct bank ( <i>green</i> )
	Vault protection system ( <i>blue</i> )
	Vault ventilation system ( <i>blue</i> )
	Detail drawing ( <i>blue</i> )
	Primary and secondary note ( <i>grey</i> )