



March 20, 2018

Ms. Lynn Retz
Secretary to the Commission
Kansas Corporation Commission
1500 SW Arrowhead Road
Topeka, Kansas 66604

18-KCPE-403-TAR

RE: Transmission Delivery Charge

Dear Ms. Retz:

Pursuant to Kansas City Power & Light Company's (KCP&L) tariff Schedule 83, KCP&L hereby files an updated Transmission Delivery Charge (TDC) tariff. The proposed rate schedules bear an issue date of March 20, 2018, and an effective date of May 1, 2018.

This filing is in accordance with K.S.A. 66-1237 which states that utilities "may seek to recover costs associated with transmission of electric power, in a manner consistent with the determination of transmission related costs from an order of a regulatory authority having legal jurisdiction, through a separate transmission delivery charge included in customers' bills."

Included in this submittal are:

- TDC tariff Schedule 83 Sheet 7, clean and red-line versions
- Public version of 2018 TDC Filing with 2017 TDC True-Up
- Confidential version of 2018 TDC Filing with 2017 TDC True-Up and workpapers

Please note that the KCP&L 2018 TDC Filing workpaper page 3, is marked "Confidential" pursuant to K.S.A. 66-1220a contains confidential financial information/budget projections used to calculate demand and energy allocators, the disclosure of which could affect the Companies' standing in the capital markets, affect the Companies' stock prices, facilitate insider trading violations of SEC rules and/or disadvantage the Companies in their contract negotiations.

Please feel free to call me at (816) 556-2612 with any questions concerning this filing.

Respectfully,

A handwritten signature in blue ink that reads "Lois Liechti".

Lois Liechti
Director, Regulatory Affairs

Enclosures

KANSAS CITY POWER & LIGHT COMPANY

(Name of Issuing Utility)

Replacing Schedule 83 Sheet 7

Rate Areas No. 2 & 4

(Territory to which schedule is applicable)

which was filed November 15, 2017No supplement or separate understanding
shall modify the tariff as shown hereon.Sheet 7 of 7 Sheets**TRANSMISSION DELIVERY CHARGE**
Schedule TDC**CALCULATION OF TDC RATES (continued):**

The Company shall file to update its TDC Rates annually. The Company may file for a change in the TDC Rates more frequently than once per year, but only if the Company receives concurrence from the Commission Staff that such filing is appropriate. All proposed TDC Rates shall be filed with the Commission no later than 30 business days before the effective date of the proposed charges.

METHOD OF BILLING:

The TDC-related revenue requirements shall be collected by applying the TDC Rate, developed for each rate schedule permitting such cost recovery, to each applicable customer's bill. The TDC Rate shall be implemented using a dollars per kilowatt-hour (kWh) charge or a dollars per kilowatt (kW) charges, as applicable.

TDC RATES EFFECTIVE:

The TDC Rates in the following table shall be applied to a customer's bill of each rate schedule as indicated. The amount determined by applying the TDC Rate shall become part of the total bill for electric service furnished and will be itemized separately on customer's bill.

<u>Rate Schedule</u>	<u>\$ per kWh</u>	<u>\$ per kW</u>
Large General Service		\$2.54754
Medium General Service		\$2.08591
Small General Service	\$0.00769	
Residential Service	\$0.00939	
Lighting Service	\$0.00560	

Issued: March 20, 2018

Month Day Year

Effective: May 1, 2018

Month Day Year

By: Darrin R. Ives Vice President

Title

KANSAS CITY POWER & LIGHT COMPANY

(Name of Issuing Utility)

Replacing Schedule 83 Sheet 7

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Sheet 7 of 7 Sheets

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<u>Rate Schedule</u>	<u>\$ per kWh</u>	<u>\$ per kW</u>
Large General Service		\$2.07923 <u>\$2.54754</u>
Medium General Service		\$1.70246 <u>\$2.08591</u>
Small General Service	\$0.00627 <u>\$0.00769</u>	
Residential Service	\$0.00766 <u>\$0.00939</u>	
Lighting Service	\$0.00457 <u>\$0.00560</u>	

Issued: ~~November 15, 2017~~ March 20, 2018

Month Day Year

Effective: ~~January 1, 2018~~ May 1, 2018

Month Day Year

By: Darrin R. Ives Vice President

Title

KANSAS CITY POWER & LIGHT
2018 TDC Filing
Kansas Transmission Delivery Charge Rider Rate Calculation and Impact Work Paper

Inputs

TDC Expenses	
2017 TDC True-Up	\$ 4,112,270
2018 Kansas TDC Expense	46,273,474
Total Kansas TDC Expense	<u>\$ 50,385,744</u>

Rate Schedule	\$ per kWh	\$ per kW
Large General Service		\$2.54754
Medium General Service		\$2.08591
Small General Service	\$0.00769	
Residential Service	\$0.00939	
Lighting Service	\$0.00560	

Demand Allocation of TDC Expenses and Calculation of Class TDC Rate

	Residential	Small General	Medium General	Large General	Lighting	Total
Demand Allocator (12 CP Method)	52.6083%	5.2740%	10.7094%	30.7876%	0.6207%	100.0000%
Allocated 2018 Kansas TDC Expense	\$ 26,507,085	\$ 2,657,354	\$ 5,396,016	\$ 15,512,549	\$ 312,741	\$ 50,385,744
Total kW			2,586,892	6,089,222		
Total kWh	2,822,789,541	345,701,992			55,822,206	
TDC Rate per kW			\$ 2.08591	\$ 2.54754		
TDC Rate per kWh	\$ 0.00939	\$ 0.00769			\$ 0.00560	

Typical Monthly Charge

	Residential	Small General	Medium General	Large General	Lighting
Typical Usage (kW)			53	457	
Typical Usage (kWh)	1,087	1,307			1,090
Typical Monthly TDC Charge	\$ 10.20	\$ 10.05	\$ 109.67	\$ 1,163.38	\$ 6.10
Typical Previous Monthly TDC Charge	\$ 8.32	\$ 8.19	\$ 89.51	\$ 949.52	\$ 4.98
Typical Change in Monthly TDC Charge	\$ 1.88 23%	\$ 1.86 23%	\$ 20.16 23%	\$ 213.86 23%	\$ 1.12 23%

KANSAS CITY POWER & LIGHT
2018 TDC Filing
TDC Calculation

2018 KCPL-KS TDC Calc

TDC Calculation 2018 TDC Filing							
Line #	SPP Schedule 9 and Schedule 11 Zonal and Regional Revenue Requirements for KCP&L Zone 6	SPP Tariff Schedule	SPP Rates Effective (ATRR _{Filing})				
			Annual Revenue Requirement	Native System LRS	Native System Network Service Costs	KS Retail Allocation	KS Retail Revenue Requirement
1	KCP&L Zone 6 Zonal ATRR	Schedule 9	\$ 51,063,381	88.2824%	\$ 45,079,965	46.5802%	\$ 20,998,341
2	KCP&L Zone 6 BPF Zonal ATRR: NTC prior to June 19, 2010	Schedule 11	\$ 2,934,285	88.2824%	\$ 2,590,456	42.9890%	\$ 1,113,612
3	KCP&L Zone 6 BPF Zonal ATRR: NTC on or after June 19, 2010	Schedule 11	\$ 91,673	88.2824%	\$ 80,931	42.9890%	\$ 34,791
4	KCP&L Zone 6 ATRR Reallocated to Balanced Portfolio Region-wide ATRR	Schedule 11	\$ (5,761,657)	88.2824%	\$ (5,086,527)	42.9890%	\$ (2,186,649)
5	KCP&L Zone 6 Base Plan Zonal ATRR to pay Upgrade Sponsors	Schedule 11	\$ 285,498	88.2824%	\$ 252,044	42.9890%	\$ 108,351
6	Region-wide Allocation to KCP&L Zone 6	Schedule 11	\$ 54,383,644	88.2824%	\$ 48,011,172	42.9890%	\$ 20,639,539
7	Total ATRR for KCP&L Zone 6		\$ 102,996,824		\$ 90,928,041		\$ 40,707,986 ATRR _{Filing}
8	SPP Administration Charges and NERC Fees for Retail Load	SPP Tariff Schedule	Known & Measureable Charges (Admin)				
			Native System Network Service Charges		KS Retail Allocation		KS Retail Charges
8	SPP Administrative Fee	Schedule 1A	\$ 9,830,405		42.9890%		4,225,996
9	NERC Fees	Non-SPP	\$ 903,473		42.9890%		388,394
10	Total Charges		\$ 10,733,878				\$ 4,614,391 Admin
11	SPP Charges for Retail Load not included above (includes non-SPP Acct 565 amounts)	SPP Tariff Schedule	Actual Charges (SPP)				
			Native System Network Service Charges		KS Retail Allocation		KS Retail Charges
11	Facility Charges on KCP&L System	Schedule 10	\$ -		42.9890%		-
12	FERC Assessment Fees	Schedule 12	\$ 902,258		42.9890%		387,872
13	KCP&L Retail Load on Foreign Wires (all costs)		\$ -		42.9890%		-
14	SPP PtP Charges for Wind for Retail Load	Schedule 2,7,11	\$ 2,814,849		42.9890%		1,210,076
15	Other 565 Retail - Non-SPP	Non-SPP	\$ -		42.9890%		-
16	SPP Direct Assigned Transmission Customer Costs charged by SPP	Z2 Schedule 7, 8	\$ 978,707		42.9890%		420,737
17	Total Charges		\$ 4,695,813				\$ 2,018,685 SPP
18	Other TFR ATRR Amounts, Etc. to be Collected in TDC	SPP Tariff Schedule	Known & Measureable TFR ATRR, Etc. (Other)				
			Annual Revenue Requirement	Native System LRS	Native System Network Service Costs	KS Retail Allocation	KS Retail Revenue Requirement
18	Transmission Owner ATRR for Sponsored Upgrade not charged by SPP in Schedules 9 & 11	n/a	\$ 1,562,021	100.0%	1,562,021	46.5802%	727,593
19	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (KCP&L Zonal)	n/a	(3,981,345)	88.3%	(3,514,826)	46.5802%	(1,637,213)
20	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Base Plan)	n/a	(208,047)	88.3%	(183,669)	42.9890%	(78,957)
21	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Balanced Portfolio)	n/a	(45,781)	88.3%	(40,417)	42.9890%	(17,375)
22	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Sponsored)	n/a	(132,319)	100.0%	(132,319)	46.5802%	(61,634)
23	Total Other		\$ (2,805,470)		\$ (2,309,209)		\$ (1,067,587) Other
Total TDC-related Costs to be Included in TDC True-Up Calculation							
24	Total Annual Transmission Cost without True-Up (Line 7 + Line 10 + Line 17 + Line 23)					\$ 104,048,523	\$ 46,273,474
25	Prior Year True-Up						4,112,270 TU _{n-1}
26	Total Annual Transmission Cost including prior year True-Up (Line 24 + Line 25)						\$ 50,385,744 TDC _{Filing}

KANSAS CITY POWER & LIGHT
2017 TDC True-Up for 2018 TDC Filing
TDC Calculation

2017 KCPL-KS TDC Calc

Line #	SPP Schedule 9 and Schedule 11 Zonal and Regional Revenue Requirements for KCP&L Zone 6	SPP Tariff Schedule
1	KCP&L Zone 6 Zonal ATRR	Schedule 9
2	KCP&L Zone 6 BPF Zonal ATRR: NTC prior to June 19, 2010	Schedule 11
3	KCP&L Zone 6 BPF Zonal ATRR: NTC on or after June 19, 2010	Schedule 11
4	KCP&L Zone 6 ATRR Reallocated to Balanced Portfolio Region-wide ATRR	Schedule 11
5	KCP&L Zone 6 Base Plan Zonal ATRR to pay Upgrade Sponsors	Schedule 11
6	Region-wide Allocation to KCP&L Zone 6	Schedule 11
7	Total ATRR for KCP&L Zone 6	

	SPP Tariff Schedule
8	SPP Administrative Fee
9	NERC Fees
10	Total Charges

	SPP Tariff Schedule
11	SPP Charges for Retail Load not included above (includes non-SPP Acct 565 amounts)
12	Facility Charges on KCP&L System
13	FERC Assessment Fees
14	KCP&L Retail Load on Foreign Wires (all costs)
15	SPP PtP Charges for Wind for Retail Load
16	Other 565 Retail - Non-SPP
17	SPP Direct Assigned Transmission Customer Costs charged by SPP
	Total Charges

	SPP Tariff Schedule
18	Other TFR ATRR Amounts, Etc. to be Collected in TDC
19	Transmission Owner ATRR for Sponsored Upgrade not charged by SPP in Schedules 9 & 11
20	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (KCP&L Zonal)
21	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Base Plan)
22	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Balanced Portfolio)
23	TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Sponsored)
	Total Other

24	Total TDC-related Costs to be Included in TDC True-Up Calculation
25	Total Annual Transmission Cost without True-Up (Line 7 + Line 10 + Line 17 + Line 23)
26	Prior Year True-Up
	Total Annual Transmission Cost including prior year True-Up (Line 24 + Line 25)

27	TDC Revenues & True-Up Calculation for TDC Year
	Total TDC Revenues (for months: January 2017 - December 2017)
	True-Up for TDC Year (to be applied to TDC rate for the following TDC year) (Line 26 - Line 27)

TDC True-Up Calculation for 2017						
SPP Rates Effective (ATRR _{Actual})						
Annual Revenue Requirement	Native System LRS	Native System Network Service Costs	KS Retail Allocation	KS Retail Revenue Requirement		
\$ 42,283,200	88.1156%	\$ 37,258,101	47.0813%	\$	17,541,602	
\$ 3,969,563	88.1156%	\$ 3,497,805	42.8940%	\$	1,500,349	
\$ 15,985	88.1156%	\$ 14,085	42.8940%	\$	6,042	
\$ (8,269,714)	88.1156%	\$ (7,286,909)	42.8940%	\$	(3,125,648)	
\$ 284,267	88.1156%	\$ 250,484	42.8940%	\$	107,443	
\$ 50,372,966	88.1156%	\$ 44,386,448	42.8940%	\$	19,039,131	
\$ 88,656,267		\$ 78,120,013		\$	35,068,919	ATRR_{Actual}

Known & Measureable Charges (Admin)		
Native System Network Service Charges	KS Retail Allocation	KS Retail Charges
\$ 9,592,082	42.8940%	4,114,429
\$ 839,765	42.8940%	360,209
\$ 10,431,847		\$ 4,474,639

Actual Charges (SPP)		
Native System Network Service Charges	KS Retail Allocation	KS Retail Charges
\$ -	42.8940%	-
\$ 973,533	42.8940%	417,587
\$ -	42.8940%	-
\$ 4,947,147	42.8940%	2,122,030
\$ 33,690	42.8940%	14,451
\$ (433,298)	42.8940%	(185,859)
\$ 5,521,072		\$ 2,368,210

Known & Measureable TFR ATRR, Etc. (Other)				
Annual Revenue Requirement	Native System LRS	Native System Network Service Costs	KS Retail Allocation	KS Retail Revenue Requirement
\$ 1,643,759	100.0%	1,643,759	47.0813%	773,903
(3,744,016)	88.1%	(3,299,062)	47.0813%	(1,553,242)
(177,119)	88.1%	(156,070)	42.8940%	(66,945)
(46,163)	88.1%	(40,676)	42.8940%	(17,448)
(133,609)	100.0%	(133,609)	47.0813%	(62,905)
\$ (2,457,147)		\$ (1,985,658)		\$ (926,635)

\$ 92,087,275		\$ 40,985,132	
	2016 True-Up	2,340,660	TU_{n-1}
		\$ 43,325,792	TDC_{Actual}
	Total 2017 TDC Revenue	\$ 39,213,522	TDC_{Rev}
	2017 True-Up	\$ 4,112,270	TU_n