



March 20, 2017

Ms. Amy L Green
Secretary to the Commission
Kansas Corporation Commission
1500 SW Arrowhead Road
Topeka, Kansas 66604

RE: Transmission Delivery Charge

Dear Ms. Green:

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, 2017, and an effective date of May 1, 2017.

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 2017 TDC Filing with 2016 TDC True-Up
- Confidential version of 2017 TDC Filing with 2016 TDC True-Up and workpapers

Please note that the KCP&L 2017 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 September 30, 2016No 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 | | \$2.57431 |
| Medium General Service | | \$1.24136 |
| Small General Service | \$0.00632 | |
| Residential Service | \$0.00772 | |
| Lighting Service | \$0.00460 | |

Issued: March 20, 2017

Month Day Year

Effective: May 1, 2017

Month Day Year

By: Darrin R. Ives Vice President

Title

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 ~~September 11, 2015~~ September 30, 2016No 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):**

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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.

| Rate Schedule | \$ per kWh | \$ per kW |
|------------------------|---|---|
| Large General Service | | -\$1.80006 <u>\$2.57431</u> |
| Medium General Service | | \$1.34307 <u>\$1.24136</u> |
| Small General Service | -\$0.00521 <u>\$0.00632</u> | |
| Residential Service | -\$0.00637 <u>\$0.00772</u> | |
| Lighting Service | \$0.00380 <u>\$0.00460</u> | |

Note:

~~The initial TDC Rates effective October 1, 2015 included a TUn-1 component of zero (\$0). The True Up component included in TDC Rate calculations for subsequent TDC Years may be positive or negative. The first TDC rate filing subsequent to the initial TDC filing shall include a TUn-1 component that only reflects TDC Revenues for Kansas Retail sales during Q4 2015 (October 1, 2015-December 31, 2015) and the TDC related cost authorized by the Commission to be recovered for Q4 2015 (October 1, 2015-December 31, 2015).~~

Issued: September 30, 2016 March 20, 2017

Month Day Year

Effective: November 14, 2016 May 1, 2017

Month Day Year

By: Darrin R. Ives

Vice President

Title

KANSAS CITY POWER & LIGHT
2017 TDC Filing
Kansas Transmission Delivery Charge Rider Rate Calculation and Impact Work Paper

| Inputs | | | | | |
|--------------------------------------|--|--|---|--|--|
| TDC Expenses | | | Rates Transposed | | |
| 2016 TDC True-Up wo/Rates Transposed | | | 2015 Rates Transposed 10/2015-12/2015 | | |
| 2016 Rates Transposed balance | | | 2016 Rates Transposed 1/2016-11/13/2016 | | |
| Total 2016 TDC True-Up | | | Total Rates Transposed | | |
| Kansas TDC Expense 2017 | | | Less 2016 Rate Adjust Billed 11/14/2016-12/2016 | | |
| Kansas TDC Expense | | | 2016 Balance | | |
| less Rates Transposed | | | Less 2017 Estimated Adjust Billed 1/2017-4/2017 | | |
| Total Kansas TDC Expense | | | 2017 Balance - Needs Correction | | |

| Rate Schedule | \$ per kWh | \$ per kW | Adjust for Rates Transposed \$ per kW | Total |
|------------------------|------------|-----------|---------------------------------------|-----------|
| Large General Service | | \$2.09381 | \$0.48050 | \$2.57431 |
| Medium General Service | | \$1.71440 | (\$0.47304) | \$1.24136 |
| Small General Service | \$0.00632 | | | \$0.00632 |
| Residential Service | \$0.00772 | | | \$0.00772 |
| Lighting Service | \$0.00460 | | | \$0.00460 |

| 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) ¹ | 52.6083% | 5.2740% | 10.7094% | 30.7876% | 0.6207% | 100.0000% |
| Allocated 2016 TDC True-Up wo/Rates Transposed | \$ 731,993 | \$ 73,383 | \$ 149,011 | \$ 428,379 | \$ 8,636 | \$ 1,391,402 |
| Allocated Kansas TDC Expense 2017 | \$ 21,054,056 | \$ 2,110,684 | \$ 4,285,949 | \$ 12,321,313 | \$ 248,404 | \$ 40,020,406 |
| Total Kansas TDC Expense | 21,786,049 | 2,184,066 | 4,434,960 | 12,749,692 | 257,041 | 41,411,808 |
| Total kW ² | | | 2,586,892 | 6,089,222 | | |
| Total kWh ³ | 2,822,789,541 | 345,701,992 | | | 55,822,206 | |
| TDC Rate per kW | | | \$ 1.71440 | \$ 2.09381 | | |
| TDC Rate per kWh | \$ 0.00772 | \$ 0.00632 | | | \$ 0.00460 | |

| Adjustment for Rates Transposed | | | | | |
|--|--|--|--------------|------------|--|
| Adjustment for Rates Transposed remaining balance kW for recovery period | | | | | |
| TDC Rate per kW - Rates Transposed | | | \$ (0.47304) | \$ 0.48050 | |

| Typical Monthly Charge | | | | | | |
|---|-------------|---------------|----------------|---------------|----------|--|
| | Residential | Small General | Medium General | Large General | Lighting | |
| Typical Usage (kW) ⁴ | | | 53 | 457 | | |
| Typical Usage (kWh) ⁵ | 1,087 | 1,307 | | | 1,090 | |
| Typical Monthly TDC Charge | \$ 8.39 | \$ 8.26 | \$ 90.14 | \$ 956.18 | \$ 5.01 | |
| Typical Monthly TDC Charge w/Rates Transposed | | | \$ 65.27 | \$ 1,175.61 | | |
| Typical Previous Monthly TDC Charge | \$ 6.92 | \$ 6.81 | \$ 74.37 | \$ 788.94 | \$ 4.14 | |
| Typical Previous Monthly TDC Charge w/Rates Transposed | | | \$ 70.61 | \$ 822.03 | | |
| Typical Change in Monthly TDC Charge | \$ 1.47 | \$ 1.45 | \$ 15.77 | \$ 167.24 | \$ 0.87 | |
| Typical Change in Monthly TDC Charge w/Rates Transposed | 21% | 21% | 21% | 21% | 21% | |
| | | | \$ (5.34) | \$ 353.58 | | |
| | | | -8% | 43% | | |

KANSAS CITY POWER & LIGHT
2017 TDC Filing
TDC Calculation

| TDC Filing Calculation for 2017 | | | | | | | |
|---|---|---------------------|---|----------------------------|-------------------------------------|-------------------------------|---|
| 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 (Note a) | Native System Network Service Costs | KS Retail Allocation (Note e) | KS Retail Revenue Requirement |
| 1 | KCP&L Zone 6 Zonal ATRR | Schedule 9 | \$ 42,283,200 | 88.1156% | \$ 37,258,101 | 46.2748% | \$ 17,241,106 |
| 2 | KCP&L Zone 6 BPF Zonal ATRR: NTC prior to June 19, 2010 | Schedule 11 | \$ 3,974,723 | 88.1156% | \$ 3,502,352 | 43.0530% | \$ 1,507,866 |
| 3 | KCP&L Zone 6 BPF Zonal ATRR: NTC on or after June 19, 2010 | Schedule 11 | \$ 15,985 | 88.1156% | \$ 14,085 | 43.0530% | \$ 6,064 |
| 4 | KCP&L Zone 6 ATRR Reallocated to Balanced Portfolio Region-wide ATRR | Schedule 11 | \$ (9,105,733) | 88.1156% | \$ (8,023,573) | 43.0530% | \$ (3,454,385) |
| 5 | KCP&L Zone 6 Base Plan Zonal ATRR to pay Upgrade Sponsors | Schedule 11 | \$ 283,066 | 88.1156% | \$ 249,425 | 43.0530% | \$ 107,385 |
| 6 | Region-wide Allocation to KCP&L Zone 6 | Schedule 11 | \$ 49,178,881 | 88.1156% | \$ 43,334,272 | 43.0530% | \$ 18,656,686 |
| 7 | Total ATRR for KCP&L Zone 6 | | <u>\$ 86,630,122</u> | | <u>\$ 76,334,663</u> | | <u>\$ 34,064,722</u> ATRR _{Filing} |
| | | | | | | | |
| | SPP Administration Charges and NERC Fees for Retail Load | SPP Tariff Schedule | Known & Measureable Charges (Admin) | | | | |
| | | | Native System Network Service Charges | | KS Retail Allocation (Note e) | | KS Retail Charges |
| 8 | SPP Administrative Fee | Schedule 1A | \$ 9,592,082 | | 43.0530% | | 4,129,675 |
| 9 | NERC Fees | Non-SPP | \$ 839,765 | | 43.0530% | | 361,544 |
| 10 | Total Charges | | <u>\$ 10,431,847</u> | | | | <u>\$ 4,491,219</u> Admin |
| | | | | | | | |
| | 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 (Note e) | | KS Retail Charges |
| 11 | Facility Charges on KCP&L System | Schedule 10 | \$ - | | 43.0530% | | - |
| 12 | FERC Assessment Fees | Schedule 12 | \$ 973,533 | | 43.0530% | | 419,135 |
| 13 | KCP&L Retail Load on Foreign Wires (all costs) | | \$ - | | 43.0530% | | - |
| 14 | SPP PtP Charges for Wind for Retail Load | Schedule 2,7,11 | \$ 4,947,147 | | 43.0530% | | 2,129,893 |
| 15 | Other 565 Retail - Non-SPP | Non-SPP | \$ 33,690 | | 43.0530% | | 14,505 |
| 16 | SPP Direct Assigned Transmission Customer Costs charged by SPP | Z2 Schedule 7, 8 | \$ (433,298) | | 43.0530% | | (186,548) |
| 17 | Total Charges | | <u>\$ 5,521,072</u> | | | | <u>\$ 2,376,985</u> SPP |
| | | | | | | | |
| Known & Measureable TFR ATRR, Etc. (Other) | | | | | | | |
| | Other TFR ATRR Amounts, Etc. to be Collected in TDC | SPP Tariff Schedule | Annual Revenue Requirement | Native System LRS (Note a) | Native System Network Service Costs | KS Retail Alloc (Note e) | KS Retail Revenue Requirement |
| | | | | | | | |
| 18 | Transmission Owner ATRR for Sponsored Upgrade not charged by SPP in Schedules 9 & 11 | n/a | \$ 1,643,759 | 100.0% | 1,643,759 | 46.2748% | 760,646 |
| 19 | TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (KCP&L Zonal) | n/a | (3,744,016) | 88.1% | (3,299,062) | 46.2748% | (1,526,634) |
| 20 | TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Base Plan) | n/a | (177,119) | 88.1% | (156,070) | 43.0530% | (67,193) |
| 21 | TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Balanced Portfolio) | n/a | (46,163) | 88.1% | (40,676) | 43.0530% | (17,512) |
| 22 | TFR ATRR Adjustment to reflect Amounts recovered though Property Tax Rider (Sponsored) | n/a | (133,609) | 100.0% | (133,609) | 46.2748% | (61,827) |
| 23 | Total Other | | <u>\$ (2,457,147)</u> | | <u>\$ (1,985,658)</u> | | <u>\$ (912,520)</u> 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) | | | | <u>\$ 90,301,925</u> | | <u>\$ 40,020,406</u> |
| 25 | Prior Year True-Up | | | | | 2016 True-up | <u>2,610,281</u> TU _{n-1} |
| 26 | Total Annual Transmission Cost including prior year True-Up (Line 24 + Line 25) | | | | | | <u>\$ 42,630,686</u> TDC _{Filing} |

KANSAS CITY POWER & LIGHT
2016 TDC True-Up for 2017 TDC Filing
TDC Calculation

| 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 2016 - December 2016) |
| | 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 2016

| SPP Rates Effective (ATRR _{Actual}) | | | | |
|---|----------------------------|-------------------------------------|-------------------------------|-------------------------------|
| Annual Revenue Requirement | Native System LRS (Note a) | Native System Network Service Costs | KS Retail Allocation (Note e) | KS Retail Revenue Requirement |
| \$ 35,869,349 | 88.3567% | \$ 31,692,973 | 46.8756% | \$ 14,856,270 |
| \$ 3,384,778 | 88.3567% | \$ 2,990,678 | 42.9521% | \$ 1,284,560 |
| \$ 19,781 | 88.3567% | \$ 17,478 | 42.9521% | \$ 7,507 |
| \$ (7,739,873) | 88.3567% | \$ (6,838,696) | 42.9521% | \$ (2,937,366) |
| \$ 93,993 | 88.3567% | \$ 83,049 | 42.9521% | \$ 35,671 |
| \$ 38,541,044 | 88.3567% | \$ 34,053,594 | 42.9521% | \$ 14,626,746 |
| \$ 70,169,072 | | \$ 61,999,075 | | \$ 27,873,389 |

ATRR_{Actual}

| Known & Measureable Charges (Admin) | | |
|---------------------------------------|-------------------------------|---------------------|
| Native System Network Service Charges | KS Retail Allocation (Note e) | KS Retail Charges |
| \$ 8,331,580 | 42.9521% | 3,578,592 |
| \$ 802,648 | 42.9521% | 344,754 |
| \$ 9,134,228 | | \$ 3,923,346 |

Admin

| Actual Charges (SPP) | | |
|---------------------------------------|-------------------------------|---------------------|
| Native System Network Service Charges | KS Retail Allocation (Note e) | KS Retail Charges |
| \$ - | 42.9521% | - |
| \$ 1,091,362 | 42.9521% | 468,763 |
| \$ - | 42.9521% | - |
| \$ 4,780,604 | 42.9521% | 2,053,372 |
| \$ 192,046 | 42.9521% | 82,488 |
| \$ - | 42.9521% | - |
| \$ 6,064,012 | | \$ 2,604,623 |

SPP

| Known & Measureable TFR ATRR, Etc. (Other) | | | | |
|--|----------------------------|-------------------------------------|--------------------------|-------------------------------|
| Annual Revenue Requirement | Native System LRS (Note a) | Native System Network Service Costs | KS Retail Alloc (Note e) | KS Retail Revenue Requirement |
| \$ 1,675,600 | 100.0% | 1,675,600 | 46.8756% | 785,448 |
| (3,532,935) | 88.4% | (3,121,585) | 46.8756% | (1,463,262) |
| (190,797) | 88.4% | (168,582) | 42.9521% | (72,409) |
| (49,598) | 88.4% | (43,823) | 42.9521% | (18,823) |
| (144,171) | 100.0% | (144,171) | 46.8756% | (67,581) |
| \$ (2,241,901) | | \$ (1,802,560) | | \$ (836,627) |

Other

| | |
|----------------------|----------------------|
| \$ 75,394,754 | \$ 33,564,731 |
|----------------------|----------------------|

2015 True-Up **1,368,862** TU_{n-1}

\$ 34,933,593 TDC_{Actual}

Total 2016 TDC Revenue **\$ 32,323,312** TDC_{Rev}

2016 True-Up **\$ 2,610,281** TU_n