BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

DIRECT TESTIMONY OF

TIM M. RUSH

ON BEHALF OF KANSAS CITY POWER & LIGHT COMPANY

IN THE MATTER OF THE APPLICATION OF KANSAS CITY POWER & LIGHT COMPANY TO MAKE CERTAIN CHANGES IN ITS CHARGES FOR ELECTRIC SERVICE

DOCKET NO. 18-KCPE-___-RTS

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OF

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1 Q: Please state your name and business address. 2 A: My name is Tim M. Rush. My business address is 1200 Main Street, Kansas City, 3 Missouri 64105. 4 By whom and in what capacity are you employed? Q: 5 A: I am employed by Kansas City Power & Light Company ("KCP&L") as Director, 6 Regulatory Affairs. 7 Q: On whose behalf are you testifying? 8 **A:** I am testifying on behalf of KCP&L ("KCP&L" or the "Company"). 9 What are your responsibilities? Q: 10 A: My general responsibilities include overseeing the preparation of the rate case, class cost 11 of service ("CCOS") and rate design of both KCP&L and KCP&L Greater Missouri 12 Operations Company ("GMO"). I am also responsible for overseeing the regulatory 13 reporting and general activities as they relate to the State Corporation Commission of the 14 State of Kansas ("KCC") and the Missouri Public Service Commission ("MPSC"). 15 Q: Please describe your education, experience and employment history. 16 A: I received a Master of Business Administration degree from Northwest Missouri State 17 University in Maryville, Missouri. I did my undergraduate study at both the University 18 of Kansas in Lawrence and the University of Missouri in Columbia. I received a

- 1 Bachelor of Science degree in Business Administration with a concentration in
- 2 Accounting from the University of Missouri in Columbia.
- 3 Q: Please provide your work experience.
- 4 A: I was hired by KCP&L in 2001 as the Director, Regulatory Affairs. Prior to my 5 employment with KCP&L, I was employed by St. Joseph Light & Power Company 6 ("Light & Power") for over 24 years. At Light & Power, I was Manager of Customer 7 Operations from 1996 to 2001, where I had responsibility for the regulatory area, as well 8 as marketing, energy consultant and customer services area. Customer services included 9 the call center and collections areas. Prior to that, I held various positions in the Rates 10 and Market Research Department from 1977 until 1996. I was the Manager of that 11 department for 15 years.
- 12 Q: Have you previously testified in proceedings before the KCC?
- 13 A: Yes, I have testified on several occasions before the KCC on a variety of issues.
- 14 Q: What is the purpose of your testimony?
- 15 A: The purpose of my testimony is to:
- I. Address the changes necessary to the Energy Cost Adjustment tariff to
 allow for the Renewable Energy Rider.
- II. Address the proposal of the Residential Time of Use, Residential Demand
 Service plus Time of Use, Residential Demand Service, the Time of Use
 rate schedules.
- 21 III. Address the proposed Renewable Energy Efficient Pilot Rider and how it 22 can fit as an energy program in Kansas.
- IV. Address the Company's proposed Electric Vehicle (EV) charging tariff.

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2	Q:	Does the Company currently have an approved Energy Cost Adjustment ("ECA")?
3	A:	Yes.
4	Q:	Is the Company proposing to make any changes in the ECA tariff?
5	A:	Yes, see Exhibit TMR-1. Two riders designed to provide renewable energy opportunities
6		for customers are discussed in the Direct Testimony of Kimberly Winslow and Bradley
7		Lutz. One program is titled the Solar Subscription Pilot Rider and the second is titled the
8		Renewable Energy Rider. The Renewable Energy Rider will require modification to the
9		current ECA. The Company proposes to add language to the ECA tariff to carve out the
10		costs and revenues of the Renewable Energy Rider from the costs and revenues in the
11		ECA. The phrases to be added will be included in both revenue account 456.1 —
12		"amounts associated with portions of Power Purchase Agreements dedicated to specific
13		customers under the Renewable Energy Rider" and purchased power expense account
14		555 — "excluding (a) amounts associated with portions of Power Purchase Agreements
15		dedicated to specific customers under the Renewable Energy Rider".
16	Q:	Will the Renewable Energy Rider and the changes to the ECA cause any problems
17		with the computation or administration of the ECA?
18	A:	No. Both the costs and revenues that will be taken out of the ECA are easily identified
19		and will not cause any problems with the ECA.
20	Q:	Does the ECA help both customers and Company?
21	A:	Yes. The ECA is a balanced recovery mechanism which provides the Company with
22		recovery of its net fuel and purchased power costs, but also provides customers assurance
23		that KCP&L is not over-recovering net fuel and purchased power costs. The ECA is

1		needed to help address volatile and uncertain net fuel and purchased power costs, and to
2		ensure the Company has an opportunity to earn a fair return in order to generally preserve
3		the financial health of the Company. The net fuel and purchased power costs contained
4		in the ECA for KCP&L represent approximately 17% of the overall costs of serving
5		customers.
6	Q:	What protections exist for customers with regard to the ECA?
7	A:	Beyond the reviews performed for each filing of the ECA changes, the ECA is also
8		audited each year through a detailed prudence review by the Staff of the KCC. To date,
9		no disallowances have occurred where the Company has been found to be imprudent in
10		any aspects of the ECA.
11		II. RESIDENTIAL PILOT RATES
12	Q:	What is the Company requesting in this proceeding?
13	A:	The Company is proposing three new residential pilot rate programs as described in the
14		testimony of Company witnesses Marisol Miller and Kimberly Winslow. The three rates
15		are:
16		1.) Residential Time of Use
17		2.) Residential Demand Service plus Time of Use
18		3.) Residential Demand Service
19	Q:	Please describe how you propose to implement these Residential Pilot Rate
20		programs?
21	A:	The three rates are being proposed as pilots limited to 1,000 residential customer
22		participants for each rate. Residential customers may select to be on one of the three
23		rates instead of the standard residential rate. Customers selecting one of these Residential

Pilot rates must have Advanced Metering Infrastructure ("AMI") metering available at their residence. The three Residential Pilot Rate programs are designed to allow the residential customer to take more control of their electric bill by modifying usage patterns or installing equipment that potentially results in a lower energy bill

Q:

A:

For example, instead of running the clothes dryer during the peak period when energy costs are high, the customer could wait until later in the evening or early in the morning. By altering the time for certain tasks, a customer would be billed at a lower rate when the clothes dryer is in operation than if they had run the dryer or dishwasher during the peak period. It will also likely result in long-run savings to the Company and non-participating customers as well. Those long-run savings include better utilization of existing Company facilities and possible deferral of future generation needs.

The Company considers these Residential Pilot Rate programs "Demand Side Management" rates. By taking advantage of the different types of rates, customers' energy consumption and demand will be affected. As a result, the Company will not recover the revenues previously being recovered from that customer when rates were established and the Company will under-recover its anticipated rates from this case.

Please describe how the Company intends to educate customers about the Residential Pilot Rate programs?

In addition to being placed on rate selected by the customer, the Company proposes to offer customers on the Residential Pilot Rate programs a smart thermostat and a home energy report to serve as educational tools to help the customer better manage the Pilot rate. Company witness Kimberly Winslow further describes the educational piece of the

1	proposed	Residential	Pilot	Rates	and	the	Demand	Side	Management	(DSM)	Pilot
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2 Programs in her direct testimony.

3 Q: How does the Company intend to recover the costs of the smart thermostat and the

4 home energy report?

Exhibit TMR-2.

A:

Because these programs are Energy Efficiency/DSM Programs, KCP&L intends to recover the cost of these programs through its Energy Efficiency Rider ("EER"). I have attached three proposed tariffs as part of my testimony. The first tariff is a modification to the EER, the second is the Home Energy Report Program ("RHER") tariff and the third is the Smart Thermostat Program ("RSTP") tariff. I have marked these exhibits as

Q: How does the Company propose to address the "lost revenues" from customers who

switch from the standard rate to one of the "Residential Pilot Rates"?

First, we will know or be able to determine how much the customer's usage has been over the prior 12 months and thus will be able to calculate the revenues that would have been recovered under the current standard rate, excluding the ECA. Second, with the AMI metering, we will be able to calculate the revenues that would be derived from placing the customer on one of the pilot tariffs, excluding the ECA. The difference would be the annual "Lost Revenues," or the lost margins. We would propose to place the annual lost margins in a regulatory asset and to accumulate over the period from the time the customer switched rates until the next rate case when the overall revenues will be re-determined and the lost margins will be accounted for at that time. We propose that the regulatory asset would allow recovery over a similar period as the time-period

- between the cases. So, if the next rate case were to occur in five years from this case,
- 2 then the amortization of the regulatory asset would be for five years.
- 3 Q: Please explain how you anticipate these rates being implemented?
- 4 A: The Company proposes that the rates be approved in this case, but not be implemented or
- 5 used until September 2019.
- 6 Q: Why wait until September 2019 before these rates are implemented?
- 7 A: The primary reason is the necessity for billing modifications to properly bill these rates.
- 8 We will have just installed a new Customer Information System, including a new billing
- 9 system. We are not planning to develop the billing functions until we have approval of
- the rate plan. As such, we will need time after this case in order to develop the billing
- engine. Secondly, we are proposing similar tariffs in Missouri that are directly linked to
- the Missouri Energy Efficiency Investment Act ("MEEIA"). We are also proposing to
- implement the Missouri pilot tariffs in the same reasonable period. Lastly, customer
- marketing and education is necessary for customers to have the knowledge necessary to
- participate in the different pilots.
- 16 Q: You mentioned that it is anticipated that usage and demand will be modified and
- 17 that customers will save money. Likewise, you anticipate that the Company will see
- some benefit from these usage changes. How do you anticipate handling the
- reduced revenues and the savings to the Company?
- 20 A: First, it is expected that some customers who select to go on the pilot rates will likely
- save money initially, without any modification of the current usage or usage pattern. For
- example, customers whose usage pattern is such that they currently use a predominant
- amount of energy during the off-peak periods will likely save money without any change

in their behavior. We are proposing that those savings, "Lost Margins", be included in the regulatory asset as described above.

A:

Second, it is expected that customers will change usage patterns to take advantage of the rates. These customer bill reduction will not be accounted for until they are measured. The Company proposes to account for these customer savings through an evaluation, measurement and verification (EM&V) process, consistent with the evaluations of other programs in Kansas. The recovery of EM&V costs will be split between two mechanisms. The process EM&V for the two residential DSM Pilot Programs will flow through the Company's EER. The impact EM&V for the three Residential Pilot Rates will be deferred to the regulatory asset account. The customer bill reductions discussed above would be reflected in the regulatory asset for recovery in the next case consistent with the "Lost Margins".

13 Q: Why isn't the Company offering these rate programs to all customers?

The first reason is that we do not have enough information regarding customer behavior to determine if the programs will be successful. We intend to use the sample of customers to help better understand the behavioral changes that may result from the pilot programs. Second, we are just completing our new Customer Information System which will provide the Company flexibility to bill these types of rates in the future. As a result, implementing a substantial pilot will give us greater flexibility for the future.

III. CLEAN CHARGE NETWORK

2 O: What is the Clean Charge Network ("CCN") program?

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- 3 A: KCP&L and GMO launched an initiative to install and operate more than 1,000 Electrical
- 4 Vehicle Charging Stations ("EVCS") throughout their respective service territories.
- 5 Company witness Chuck Caisley describes the CCN program in greater detail.

6 Q: What is the Company seeking regarding the Clean Charge Network ("CCN")?

- 7 A: The Company is requesting recovery of plant and expense in rate base and cost of service associated with the electric vehicle charging stations ("EVCS"), as well as approval of some modifications to the existing tariff used to charge end users of the EVCS. In KCP&L's previous Kansas rate case, the Commission allowed the Company to implement an EV tariff to charge end users of the EVCS, however, the Commission
- did not allow recovery of the investment in the EVCS.

13 Q. Why is KCP&L requesting recovery of the EVCS?

14 A. Utilization of the EVCS has grown such that rate recovery should be allowed. The 15 Commission did not conclude that the EVCS was not a regulated operation, but instead 16 indicated the Company did not justify recovery of the investment in the EVCS. With the 17 continued growth in utilization of the EVCS since this was last addressed by the 18 Commission, the operation of the EVCS are justified and should be included in rates by 19 this Commission. All KCP&L's Kansas customers, both EV users and non-EV users 20 alike, will benefit from the CCN. Benefits include increased off-peak electricity usage, 21 environmental benefits from reduced CO₂ emissions and lower ozone-reducing 22 pollutants, economic impacts resulting in job creation, improved customer programs, and 23 lower costs and efficiency by having the utility install, own and operate the EVCS. The

increase in home-based usage to charge EVs will also provide a broader base over which to spread system costs. The investment in EVCS is necessary to provide electric service to our mobile customers and should be recovered like other prudent infrastructure investments. Furthermore, data gathered since the conclusion of the last rate case shows that the CCN is achieving its intended goals of expanding the adoption of electric vehicles in the service territory relative to other markets that lack a utility-led effort. Company Witness Charles Caisley describes these activities, changing market conditions and developments on utility programs in other jurisdictions.

Q: Are the costs for EVCS currently included in KCP&L's Kansas rates?

10 A: No. These costs are not currently in rates. The costs to date have been treated below the11 line and borne by the Company's shareholders.

12 Q: What is the approximate revenue requirement impact of the EVCS?

A:

13 A: The overall rate impact from the EVCS is approximately \$1.1 million annually. This
14 reflects the inclusion of an investment of over \$5.6 million and anticipated annual
15 operation and maintenance expenses of a little over \$320,000.

Q: What has been the growth in kWh sales since the initial installations of the EVCS?

The growth in kWh sales at the charging stations for KCP&L in Kansas is significant. Sales in 2015 were 32,842 kWh. That grew to 166,913 in 2016 and 2017 kWh sales reached 393,052 kWh's. If you priced 2017 sales at \$0.20 per kWh for Level 2 and \$0.25 per kWh for Level 3, it would provide revenues of approximately \$82,000. However, sales are expected to continue to grow as the market continues to develop. Growth at customers' residences is not measured directly, but has materially grown over this same

1 pe	riod as demonstrated	by the	growth ir	n the number	of electric	vehicles	discussed	in t	ιhe
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- 2 Direct Testimony of Charles Caisley.
- 3 Q: Will Commission approval of the CCN and related tariff provide KCP&L the
- 4 opportunity to continue to add charging stations beyond those currently envisioned?
- 5 A: No. The CCN involves just over 1,000 charging stations throughout KCP&L's service
- 6 territories in both states. The actual number of charging stations located in KCP&L
- 7 territory will be determined, in part, by host interest. KCP&L has proposed a cap in
- 8 Schedule CCN of 350 charging stations. Commission approval is required for additional
- 9 stations under the tariff.
- 10 Q: Are the cost recovery mechanisms and resulting rates proposed by KCP&L in this
- application are fair, just and reasonable for KCP&L's Kansas customers?
- 12 A: Yes, I do.
- 13 Q. You are recommending some modifications to the existing CCN tariff. Is this
- 14 correct?
- 15 A. Yes. The Company believes that the current rate in Kansas should be modified to be more
- easily understood and consistent with the rates proposed in the Missouri rate cases that
- are currently in process. What I mean by more easily understood is to have it simple.
- Rather than having the complexity of a base energy rate plus a number of riders
- including the Energy Cost Adjustment ("ECA"), Tax Adjustment ("TA"), Property Tax
- Surcharge ("PTS"), and Transmission Delivery Charge ("TDC"), the Company believes
- 21 it would be better if rider rate elements can take place in the back office and that a simple
- price per kWh charge would be both easier for customers to understand and more
- reflective of what is happening in the industry across the country.

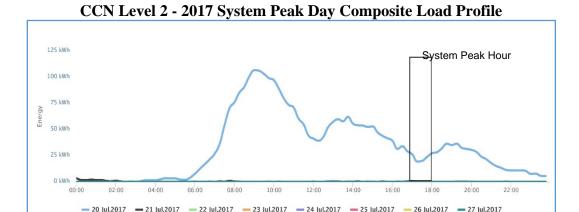
Q: Has any analysis occurred to help in guiding the development of these prices?

2 A: Yes. The Company developed and analyzed a composite system level, 15-minute, load 3 profile for all Level 2 and Level 3 (Fast DC) charging stations throughout the GMO and 4 KCP&L service territories.

5 Q. What did this analysis conclude?

A.

The following graphs illustrate each load profiles for the 2017 system peak day, July 22. For the month of July 2017, the Level 2 stations had a composite non-coincident peak (NCP) of 512.4 kW with a monthly load factor 18.8%. As illustrated in the figure below, the composite Level 2 station demand had little coincidence with the system peak hour (5-6 p.m.), with an average of 89.7 kW (17.7% of the composite NCP) occurring during the system peak hour.



The Level 3, Fast DC, stations had a composite non-coincident peak (NCP) of 171.5 kW with a monthly load factor 13.6%. As illustrated in the figure below, the composite Level 3 station demand had significantly more coincidence with the system peak hour (5-6 p.m.), with an average of 81.9 kW (47.8% of the composite NCP) occurring during the system peak hour.



A.



Q. Based on this analysis, what can you conclude as the appropriate electric rate to charge owners of EV Charging Stations?

In general, we see the Level 2 charging stations use occurring in the early daytime period when users either come to work or are doing daily activities. Level 3 charging stations have a more up and down load pattern during the day, but are more likely to have a load on the system at the peaking period.

Based on the data currently available, I believe the most appropriate electric rate to charge owners of EVCS for service to locations serving only EVCS is the Small General Service rate, Schedule SGS. The structure of this tariff is well suited for service to both Level 2 or Level 3 charging stations.

For commercial service with demands less than 25 kW, the SGS rate is comprised of a Service Charge and an Energy Charge. The 25 kW limit of the SGS rate will accommodate the majority, if not all, of the CCN Level 2 charging locations where the owner of the Station which is only serving electrical charging. The Company's analysis also shows that the CCN Level 2 stations have minimal impact on overall system peak capacity and therefor the SGS energy only rate is appropriate.

The SGS rate is also appropriate for Level 3 (Fast DC) charging stations which have demands greater than 25 kW. For service with demands greater than 25 kW, the SGS rate is comprised of a Service Charge, an Energy Charge, and a Facilities Charge for all kW in excess of 25 kW. As the Company's analysis shows, the CCN Level 3 charge station demands have a level of coincidence with the Company system peak, thereby justifying the additional demand charges.

Again, this addresses electrical service which is connected to an EVCS. If the EVCS is combined with other usages, such as a convenience stores, then the appropriate rate to charge would be dependent on the overall load characteristics of the location.

Please describe the EVCS rates you are proposing in this case?

Exhibit TMR-3 presents the proposed new tariff titled Public Electric Vehicle Charging Station Service, Schedule CCN. It is specific to KCP&L-owned charging stations available to EV drivers throughout its service territory. The proposed tariff does not address charging of EVs at customer single-family residences or at privately owned and operated charging stations like some businesses have provided at their sites specifically for their employees and guests.

Q: How is the tariff designed?

A:

Q:

A:

The Schedule CCN rate tariff establishes a flat rate per kWh for both Level 2 and Level 3 EVCS. The tariff does not specifically identify and separate out the current riders, such as the ECA, TA, PTSS, or TDC rate riders at the price "at the pump". However, those amounts would be included in the rate and backed out of the revenues to appropriately include them in the Company's reporting in its books and records. The rate is intended to recover investment and expenses in the EVCS. This includes a flat rate of \$0.20 per

kWh for Level 2 EVCS and a flat rate of \$0.25 for Level 3, Fast DC EVCS. 2 would be applied separately.

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A:

In addition to the Energy Charge rates, the tariff also includes guidelines for application of Session Overstay Charges, at the discretion of the Company, to incent charging station users to move their vehicles promptly after charging to improve utilization of the stations.

7 Q: Does the tariff recover costs related to the charging stations from the users of the 8 charging stations?

9 A: Yes. The flat rate incorporates a driver contribution to defray a portion of the costs for the 10 EVCS. As more and more electric vehicles utilize the services, the contribution would be 11 increased.

How did KCP&L determine the kWh rates set forth in Schedule CCN? Q:

First, the Company wanted to have a price that was consistent throughout the GMO and KCP&L service territories. Second, the rate should be simple so that it would be easier for customers to understand. Therefore, we propose not to specifically identify the various riders on the price at the charging station. Third, we wanted the price to be reflective of our SGS rates as best as possible. And lastly, we wanted a rate to allow recovery of the cost of service as more users begin to utilize the service. The rates proposed are flat kWh rates that are intended recover the investment in the facilities over time as additional vehicles utilize the service. The Company is also proposing to include an optional Session Overstay Fee in the tariff.

- 1 Q: Can you explain the concept of the Session Overstay Fee contained in the proposed tariff?
- A: Under the proposed tariff, the Company has the discretion to impose a Session Overstay

 Fee to incent customers to move their vehicles once the charging process is completed so

 that other customers can have access to charging station. With the Session Overstay Fee,

 the driver would be provided a grace period after the EV has completed charging before

 the Session Overstay Fee would be imposed. The grace period allows the EV driver to
- 8 receive notification (via text or e-mail) and move their vehicle to avoid these charges.
- 9 Q How does the Company intend to determine if a Session Overstay Fee should be10 applied?
- 11 A: The Company plans to implement the Session Overstay Fee only when needed at
 12 charging station locations based on the occupancy and availability of charging ports at
 13 each host site location. Initially, the Company does not plan to implement the Session
 14 Overstay Fee on any of the charging stations. The Company will monitor charge port
 15 availability and overstay times and implement Session Overstay Fee at host locations
 16 where the additional inducement is needed to get drivers to move their vehicle.
- 17 Q. Will the Session Overstay Fee be the same at all Clean Charge Network locations?
- 18 A. No. Schedule CCN sets a cap of \$6.00 per hour for Session Overstay Charge and care
 19 must be taken to ensure they are set high enough to incent drivers to move their vehicle
 20 but not so high as to discourage customers from using the stations. The Company set the
 21 maximum of the range of Session Overstay Charge at \$6.00 per hour based on the
 22 maximum rate of charge provided by the Level 3 charging station the fastest charger.
 23 The lost revenue potential of a Level 2 charge port is significantly less (approximately

\$1/hr.) and the Session Overstay Charge should reflect this differential. The Company wants to establish the minimum number of Session Overstay Charges levels but recognizes that higher overstay charges may be needed at some locations compared to others.

5 Q. What type of other notification can a driver receive?

- 6 A: Notifications are available to make drivers aware of their EV charging status at all times.
- 7 Text and email notifications can be set up to notify drivers when their car is fully
- 8 charged, when charging is interrupted, when a Session Overstay grace period is ending,
- 9 and when charging stations become available for use.
- 10 Q: Has KCP&L begun an analysis on EV home charging and possible rate designs that
 11 may be beneficial?
- 12 A. The majority of EV charging is at the home. With KCP&L's most recent system peak
 13 occurring in the late afternoon, at home charging could have substantial system peak
 14 coincidence. Typically, EV charging in the home would occur when the vehicle owner
 15 arrives, which could add extra load to the peak periods of the Company.

16 Q. Has KCP&L evaluated TOU rates for home charging?

17 A. Yes. As described in the Direct Testimony of Marisol Miller, KCP&L contracted with
18 Burns & McDonnell (B&McD) to perform a Residential Rate Design Strategy Study, in
19 order to prepare a general long term plan for implementing Residential rate designs that
20 align with the utility's internal goals and objectives, reflect good rate making principles,
21 and align with future technologies being implemented. One of the outcomes of the study
22 was the design of a residential TOU rate that can be used by and marketed to EV owners
23 to shift EV load off-peak in a cost-efficient manner in all. This study is discussed further

- 1 in her testimony and the report from B&McD. The TOU rate proposed in this proceeding
- 2 can easily be used to incentivize EV drivers to charge their vehicles during off-peak
- 3 periods during the late night hours.
- 4 Q: Does that conclude your testimony?
- 5 A: Yes, it does.

BEFORE THE CORPORATION COMMISSION OF THE STATE OF KANSAS

In the Matter of the Application of Kansas City Power & Light Company to Make Certain Changes in Its Charge for Electric Service))
AFFIDAVIT O	F TIM M. RUSH
STATE OF MISSOURI)) ss COUNTY OF JACKSON)	
Tim M. Rush, being first duly sworn on his	oath, states:
1. My name is Tim M. Rush. I work in	Kansas City, Missouri, and I am employed by Kansas
City Power & Light Company as Director, Regulator	ory Affairs
2. Attached hereto and made a part here	eof for all purposes is my Direct Testimony on behalf
of Kansas City Power & Light Company consisting	ng of eighteen (18) pages, having been prepared in
written form for introduction into evidence in the ab	pove-captioned docket.
3. I have knowledge of the matters se	et forth therein. I hereby swear and affirm that my
answers contained in the attached testimony to	the questions therein propounded, including any
attachments thereto, are true and accurate to the bes	t of my knowledge, information and belief.
	Tim M. Rush
Subscribed and sworn before me this 1 st day of May	Notary Public
My commission expires: $4/24/24/$	ANTHONY R WESTENKIRCHNER Notary Public, Notary Seal State of Missouri Platte County Commission # 17279952 My Commission Expires April 26, 2021

Ranka City Power & LIGHT COMPANY Replacing Schedule 2 Sheet 1				SCH	EDUL	E	2			
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APPLICABILITY: This Energy Cost Adjustment (ECA) Schedule shall be applicable to all Kansas Retail Rate Schedules for KCPL. BASIS: Energy costs will be measured and applied to a customer's bill using an ECA factor. The ECA factor is applied on a kilowatt-hour basis (SkWh). Retail customer charges for energy costs are determined by multiplying the kilowatt-hours of electricity during any calendar month by the corresponding ECA factor (50 that calendar month. ENERGY COST ADJUSTMENT: Prior to January 1 of each ECA year, an ECA factor (ECA-p) will be calculated for each calendar month of the ECA year as follows: ECA- = ((F_P + P_P + E_P) - BPR_P)	1.1	<u> </u>			Sheet	1	of	4	Sheets	
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Where: S_P	Prior to January 1 of		ctor (ECA _P) will b	pe calculated for	each cale	endar m	nonth of the	e ECA yea	ar as	
Where: S_P	((F _P +	$P_P + E_P$) - BPR_P)	$OSSM_K$	$TRUE_A$						
which the ECA is in effect for all KCPL Retail, Requirements Sales for Resale, and Bulk Power Sales customers not included in OSSM, to be recorded in Account 501, Account 518 and Account 547, excluding any KCPL internal labor cost. PP = Projected cost of purchased power during the month in which the ECA is in effect for all KCPL Retail, Requirements Sales for Resale, and Bulk Power Sales customers not included in OSSM, to be recorded in Account 555, and KCPL's projected charges or credits incurred due to participation in markets associated with Regional Transmission Organizations (RTOs) excluding amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff. EP = Projected cost of emission allowances during the month in which the ECA is in effect for all KCPL Retail, Requirements Sales for Resale, and Bulk Power Sales customers not included in OSSM, to be recorded in Account 509. BPRP = Projected Revenue from asset-based Bulk Power Sales customers not included in OSSM, to be recorded in Account 509. BPRP = Projected All Republications asset-based Bulk Power Sales customers not included in OSSM. SP = Projected annual asset-based Off-System Sales Margin from Bulk Power Sales at the median for the effective ECA year, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under	S									
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Requirements Sales for Resale, and Bulk Power Sales customers not included in OSSM, to be recorded In Account 509. BPRP = Projected Revenue from asset-based Bulk Power Sales customers not included in OSSM. SP = Projected kWhs to be delivered to all KCPL Retail and Requirements Sales for Resale customers during the month in which the ECA is in effect. OSSM = Projected annual asset-based Off-System Sales Margin from Bulk Power Sales at the median for the effective ECA year, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff year multiplied by the projected Unused Energy (UE1) Allocator for Kansas. S _K = Projected annual kWhs to be delivered to all Kansas Retail customers during the effective ECA year. S _{TRUE} = Projected kWhs for Kansas Retail customers for the twelve-month period beginning in April of the year following the ECA year. Effective: May 1, 2018 Month Day Year	Requiren 555, and Transmis	Requirements Sales for Resale, and Bulk Power Sales customers not included in OSSM, to be recorded in Account 555, and KCPL's projected charges or credits incurred due to participation in markets associated with Regional Transmission Organizations (RTOs) excluding amounts associated with portions of purchased power agreements								
SP = Projected kWhs to be delivered to all KCPL Retail and Requirements Sales for Resale customers during the month in which the ECA is in effect. OSSM = Projected annual asset-based Off-System Sales Margin from Bulk Power Sales at the median for the effective ECA year, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff. OSSM _K = The projected annual asset-based Off-System Sales Margin from Bulk Power Sales at the median for the effective ECA, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff year multiplied by the projected Unused Energy (UE1) Allocator for Kansas. S _K = Projected annual kWhs to be delivered to all Kansas Retail customers during the effective ECA year. S _{TRUE} = Projected kWhs for Kansas Retail customers for the twelve-month period beginning in April of the year following the ECA year. Effective: Month Day Year	Requiren								n Account	
which the ECA is in effect. OSSM = Projected annual asset-based Off-System Sales Margin from Bulk Power Sales at the median for the effective ECA year, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff. OSSM _K = The projected annual asset-based Off-System Sales Margin from Bulk Power Sales at the median for the effective ECA, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff year multiplied by the projected Unused Energy (UE1) Allocator for Kansas. S _K = Projected annual kWhs to be delivered to all Kansas Retail customers during the effective ECA year. S _{TRUE} = Projected kWhs for Kansas Retail customers for the twelve-month period beginning in April of the year following the ECA year. Effective: May 1, 2018 Month Day Year Month Day Year	BPR _P = Projecte	d Revenue from asset-base	ed Bulk Power Sa	ales customers no	ot include	d in OS	SSM.			
ECA year, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff. OSSM _K = The projected annual asset-based Off-System Sales Margin from Bulk Power Sales at the median for the effective ECA, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff year multiplied by the projected Unused Energy (UE1) Allocator for Kansas. S _K = Projected annual kWhs to be delivered to all Kansas Retail customers during the effective ECA year. S _{TRUE} = Projected kWhs for Kansas Retail customers for the twelve-month period beginning in April of the year following the ECA year. Issued: May 1, 2018 Month Day Year Month Day Year			l KCPL Retail an	d Requirements	Sales for	Resale	customer	s during the	he month in	
effective ECA, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff year multiplied by the projected Unused Energy (UE1) Allocator for Kansas. S _K = Projected annual kWhs to be delivered to all Kansas Retail customers during the effective ECA year. S _{TRUE} = Projected kWhs for Kansas Retail customers for the twelve-month period beginning in April of the year following the ECA year. Effective: Month Day Year Month Day Year	ECÁ yea custome	r, but excluding: (1) amount rs under the Renewable End	ts associated wit ergy Rider tariff;	h portions of purc and (2) amounts	chased po	wer ag	greements	dedicated	to specific	
S _{TRUE} = Projected kWhs for Kansas Retail customers for the twelve-month period beginning in April of the year following the ECA year. Issued: May 1, 2018 Month Day Year Month Day Year	effective ECA, but excluding: (1) amounts associated with portions of purchased power agreements dedicated to specific customers under the Renewable Energy Rider tariff; and (2) amounts associated with generation assets dedicated to specific customers under the Renewable Energy Rider tariff year multiplied by the projected Unused					assets				
Issued: May 1, 2018 Month Day Year Effective: Month Day Year	S _K = Projected	d annual kWhs to be deliver	ed to all Kansas	Retail customers	s during th	ne effe	tive ECA	year.		
Month Day Year Effective: Month Day Year			ustomers for the	twelve-month per	riod begin	ining in	April of th	e year foll	lowing	
Month Day Year Effective: Month Day Year	Issued:	May 1, 2018								
Month Day Year			Year							
·	Effective:	Month	To on							
	By: /s/ Darrin R.	, in the second second								

THESTATE	.ن	RECKATION COMMISSION OF KANSAS	SCH	EDULE	Ξ		2		
KANSAS CIT	Υl	POWER & LIGHT COMPANY							
(Name of Issuing Utility)			Replacing Schedule	2		Sheet _	2		
		e Areas No. 2 & 4 which schedule is applicable)	which was filed	,	September 10, 2015				
` ` `		separate understanding	willen was fried		<u>septemo</u>	<u> </u>	2013		
		ariff as shown hereon.	Sheet	2	of	4	Sheet	S	
		ENERGY COST ADJ Schedule							
TRUEA	=	The annual true-up amount for an ECA year, to and to be applied for a twelve-month period beg up amount will reflect any difference between the year and the actual costs incurred to achieve the Sales Revenue for the ECA year. Such true-up balances from prior true-up periods will be added.	ginning April 1 of the yea he total ECA revenue for ose Retail sales less the o amount may be positiv	ar follow the Re credits	ring the E tail sales s applied	ECA your solution of the second secon	ear. The together	true- A	
$TRUE_A$	=	ECAREVA - [((FA + PA + EA - BPRA) - NABI	PC _A) x] + OSS	SM _A + 7	FRUE PRIO	OR			
Where:			S _{AT}						
ECAREV _A	=	Actual ECA revenue for Kansas Retail sales du	ring the ECA year.						
FA	=	Actual total company cost of nuclear and fossil year recorded in Account 501, Account 518 and all costs associated with OSSM _A .							
Ра	=	Actual total company cost of purchased power is KCPL's actual charges or credits incurred due to Transmission Organizations (RTOs) less all cost with portions of purchased power agreements of Rider tariff.	o participation in market sts associated with OSS	s assoc M _A exc	ciated wit luding ar	th Reg mount	gional s associa	ted	
E _A	=	Actual total company emission allowance costs all costs associated with OSSM _A .	incurred during the EC	A year ı	ecorded	in Acc	count 509	less	
BPR _A		Actual Revenue from asset-based Bulk Power Samounts associated with portions of purchased panewable Energy Rider tariff; and (2) amounts customers under the Renewable Energy Rider tare	power agreements dedic associated with generat	cated to	specific	custo	mers unde	er the	
NABPCA	=	Actual total company cost for non-asset-based reflected in P_A ,.	sales to Bulk Power cus	stomers	during th	he EC	A year, as	}	
OSSMA	=	Actual total company asset-based Off-System Sexcluding: (1) amounts associated with portions customers under the Renewable Energy Rider dedicated to specific customers under the Rene Unused Energy (UE1) Allocator for Kansas.	s of purchased power ag tariff; and (2) amounts a	reemei ssociat	nts dedic ed with g	ated to genera	o specific ation asset		
SAK	=	Actual kWhs delivered to KCPL's Kansas Retain	il customers during the E	ECA ye	ar.				
S _{AT}	=	Actual kWhs delivered to all KCPL Retail and R year.	equirements Sales for F	Resale	custome	rs duri	ing the EC	A	
TRUEPRIOR	=	Remaining true-up amounts from previous ECA	A years (positive or nega	ative).					
Issued:		May 1, 2018 Month Day Year							
Effective:		Month Day Year							
By: /s/ D	arı	rin R. Ives Vice President							

THE STAT	E CORPORATION COMMISSION OF KANSAS	SCH	IEDUL	E		2		
KANSAS (CITY POWER & LIGHT COMPANY (Name of Jaming Heilitz)	Replacing Schedule				Sheet		
Rate Areas		Keptacing Schedule Shee						
	ritory to which schedule is applicable)	which was filed						
	nent or separate understanding y the tariff as shown hereon.	Sheet	3	of	4	Sheets		
				-				
	ENERGY COST ADJUSTMENT Schedule ECA							
NOTES	S TO THE TARIFF:							
1.	On or before December 20th prior to each ECA ye monthly ECA factors on a \$/kWh basis for each n monthly ECA factors for January, February and M monthly ECA factors, and any updates to such m	nonth of the coming ECA March of the ECA year. K	year. : CPL w	Such rep ill publist	ort will	set the		
2.	On or before the 20 th day of March, June, and Se containing updated projected ECA factors for the projected ECA factors will set the monthly ECA fareport shall also compare the original ECA revent on a total revenue basis. If the original projection balance at any time during the ECA year, the remanticipated difference.	remaining months of the actors for the next calend ue projections and the the and the then current pro	effectivar quar en-curre	ve ECA y ter of the ent ECA become	vear. S ECA y year-en signific	Such updated vear. Such nd projections cantly out of		
3.	On or before the 1 st day of March each year beging provides the true-up reconciliation for the precedi ("ACA"). Such reconciliation amount, if any, for a monthly ECA factors for the 12-month period beging Commission may make such ACA subject to corrapplication. All revenues collected pursuant to the adjustment until the ACA review is complete, the all terms and conditions of such order are satisfied adjustment, including the reasonableness and provided in the consistent with industry standards regarding ecoral such is necessary to minimize the impact of the	ng ECA year, otherwise given ECA year will be a inning April following the ection in whole or in part e ECA tariff shall be dee Commission has issued d. The Commission shaudence of the actual ECA the application. Pruden nomic dispatch, reliability	known a applied reconc , pendir med to a final o Il make A costs t operat , mainte	as the Adas an actiled ECAng final dobe reveronder in the affinal doincurred tion of Ki	ctual Co ljustme v year. letermir nues su he ACA etermin during CPL's s	ost Adjustment nt to the The nation on the abject to A matter, and nation on the the ECA year, system will be		
4.	The monthly ECA factor will be expressed in dollar	ars per kilowatt-hour rour	nded to	five deci	mal pla	ices.		
5.	Each ECA year will be a calendar year, with the f	irst year beginning Janua	ary 1, 20	008.				
6.								
7.	The references to Accounts within the ECA tariff	are as defined in the FEF	RC unifo	orm syste	em of a	ccounts.		
8.	Retail Customers are customers that receive serv	vice under one of the KC	PL Reta	ail tariffs.				
9.	Requirements Sales for Resale Customers are w and energy needs of the customer on a contract l					e full capacity		
10.	Bulk Power Sales Customers are wholesale custon Non-Requirements Sales for Resale customers (under P	ower coi	itracts.	These are		
Issued:	December 7, 2007		FILED					
	Month Day Year	THE STATE C	CORPO	RATION	N COM	IMISSION OF		

January 1, 2008

Vice President Title

By:

Month

Effective:

By:

Chris Giles

Secretary

KANSAS

THESTA	TE CORFORATION COM	SCHEDULE							
KANSAS	CITY POWER & LIGHT C	<u>COMPANY</u>							
~ A	(Name of Issuing Utility)		Replacing Schedule	2		_ Sheet _	4		
	as No. 2 & 4 erritory to which schedule is applicate	able)	which was filed		December 7,	, 2007			
	ment or separate understandi		Sheet	4	of 4	Shee	ets		
slian moc.	ny the tarm as shown hereo.	ENERGY COST Schedul	ADJUSTMENT	- 1	UI I	biice	to		
NOTE	S TO THE TARIFF (continue	<u>ed)</u> :							
1.	jurisdictional "Unused E for each KCPL jurisdict for each jurisdiction from the "Energy w/ Losses" "Available Energy" is caus subject year (8760 in no CP demand from each	E1) Allocator for KCPL's Renergy" MWhs by the total ion (Kansas, Missouri, and the "Available Energy" Mellocator (E1) which refles alculated by multiplying Koon-leap years) and by the jurisdiction's customers. The set of generation and capacalculation.	KCPL "Unused Energy'd FERC) is calculated by MWhs for each jurisdiction cts the energy used by CPL's total "Available Cajurisdictional "Demand" The "Available Capacity'	' MWhs.	The "Unused ting the "Ener Energy Used soliction's cust by the total hor (D1) which red as the total	d Energy" Norgy Used" In the second to the s	MWhs MWhs on ne		
2.	 This tariff is subject to KCPL's Rules and Regulations as approved by the State Corporation Commission of Kansas. 								
3.	This tariff is subject to all applicable Kansas statutes and regulations regarding the filing and investigation of complaints on unreasonable, unfair or unjust rates.								
4.	calculate the OSSM co January-June (which w December (which will in calendar year 2010 onl separate six-month calenthe tariff on or before M	E-422-TAR, the Commission mponent of the projected mponent of the projected Oil not include projected OSM from the OSSM component would be component of the Commission of the tariff on or before Second the tariff on or before Second the tariff on tariff on the tariff on the tariff on the tariff on the tariff o	ECA factors (OSSM _K / S ff-system Sales Margin (om latan 2), rather than will be calculated and the June 2010 filed Deceml r July-December 2010 to	S _K) in tw OSSM) f on a 12-r e ECA fa ber 18, 2	o six-month s from latan 2) a month annual ctors will be s 009 and upda	segments, and July- I basis. For submitted in ated pursua	r n two ant to		
Issued:	Decembe	r 30, 2009		FILED					
	Month	Day Year	THE STATE	COPPOI	PATION CO	MMISSIO	NOE		
Effective:	Decemb	IIIESTATE		NSAS	MINITOSIO	11 01			
Month Day Year									
By:	Curtis D. Blanc	Sr. Director	By:			Secretary			

THE STATE CORPORATION COMMISSION OF KANSAS	SCH	15					
KANSAS CITY POWER & LIGHT COMPANY						_	
(Name of Issuing Utility) Rate Areas No. 2 & 4	Replacing Schedule		15		Sheet _	1	
(Territory to which schedule is applicable)	which was filed		Inlv '	21, 200	08		
No supplement or separate understanding	willen was fried		July 1	21, 200	,,,		
shall modify the tariff as shown hereon.	Sheet	1	of	2	Sheets	3	
ENERGY EFFICIE Schedule							
APPLICABILITY:							
This Energy Efficiency (EE) Rider (Schedule EE) shall be applicable to all non-lighting Kansas Retail Rate Schedules for KCPL.							
PURPOSE:							
This EE Rider is designed to recover all costs associated with the following Commission-approved Income-Eligible, Energy Efficiency and Demand Response schedules: (1) IEW; (2) PT; (3) BOC; (4) ER; (5) CHP; (6) NH; (7) RHER; (8) RSTP; and (9) DRI. KCPL will file a new EE Rider no later than March 31 of each year to recover EE Program costs incurred during the prior calendar year for recovery over the following July through June period.							
BASIS:							
Program Costs will be recovered using an EE factor applied to each customer's bill. The EE factor will be applied to the customer's usage on a kilowatt-hour basis (\$/kWh). Retail customer charges for EE Program Costs are determined by multiplying the kilowatt-hours of electricity billed by the corresponding EE factor. The customer charges associated with this EE Rider will be identified and shown as a separate line on the customer's bill.							
ENERGY EFFICIENCY RIDER AMOUNT CALCULATION	:						
A separate EE factor will be calculated for each of total kWh for each class. The EE factor (EEF) for Program Costs for approved EE Programs from the from the prior period by applying a class Demand (kWh) for that class as follows:	each customer class e specified period plu	will be us any a	calcula pplical	ated to	recove e up am	r the ount	
(EE	:C _n + TRUE _{n-1}) x DA	(class)					
EEF _(class) =							
Where:	KWH _{n (class)}						
EEC_n = All actual costs associated with Commission-approved EE Programs incurred during the applicable time-period (n). These costs are recorded in a deferred regulatory asset account established to accumulate the Kansas jurisdictional costs of all EE Programs.							
T 1. 2010							
Issued: May 1, 2018 Month Day Year							
Effective:							
Month Day Year By: Darren R. Ives Vice President							
By: Darren R. Ives Vice President							

SCHEDULE _____ 15 KANSAS CITY POWER & LIGHT COMPANY Replacing Schedule 15 Sheet 2 (Name of Issuing Utility) Rate Areas No. 2 & 4 (Territory to which schedule is applicable) which was filed March 29, 2018 No supplement or separate understanding Sheet 2 of 2 Sheets shall modify the tariff as shown hereon. **ENERGY EFFICIENCY RIDER** Schedule EE (Continued) **ENERGY EFFICIENCY RIDER AMOUNT CALCULATION: (Continued)** TRUE_{n-1} = The annual true-up amount for an EE Rider year, to be determined prior to filing the next EE Rider and to be applied to the subsequent EE factor calculation. The true-up amount will reflect any difference between the total EE revenue collected and the actual costs (EECn) for the previous applicable time-period (n-1). Such true-up amount may be positive or negative. The trueup amount used to calculate the EEF for the first EE Rider equals zero. DA(class) = The demand allocator for the applicable non-lighting classes. This demand allocator shall be based on the 12-CP allocator utilized by the Company for its Class Cost of Service Study in the most recent Kansas retail rate case. KWH_{n (class)} = The actual kWh electric sales for the Kansas jurisdiction for the applicable time-period (n) of the Class Cost of Service Study for the applicable class. TERM: This EE Rider shall remain in effect until such time the Commission-approved amount is recovered. In the event the Commission rules on, or a law is passed regarding treatment of such expenses, then KCPL shall have the right to file for Commission approval of a compliant recovery methodology to replace or revise this EE Rider. KCPL shall have the right to continue recovery under this EE Rider until such time a replacement methodology is approved and implemented or all Commission-approved amounts are recovered. NOTES TO THE TARIFF: The references to Accounts within the EE tariff are as defined in the FERC uniform system of The EEC factor will be expressed in dollars per kilowatt-hour (kWh) rounded to five decimal places. EE FACTORS FOR JULY 1, 2018 THROUGH JUNE 30, 2019 USAGE: Residential Service \$0.0000/kWh 1. 2. Small General Service \$0.0000/kWh 3. Medium General Service \$0.0000/kWh \$0.0000/kWh Large General Service Issued: May 1, 2018 Effective: Month Vice President By: /s/ Darrin R. Ives

Commented [MT1]: The proposed changes are based off of the version of Schedule 15 Sheet 2 currently filed within Docket: 18-KCPE-420-TAR.

THE STATE CORPORATION COMMISSION OF KA	NSAS SCHED	DULE	21
KANSAS CITY POWER & LIGHT COMPANY			
(Name of Issuing Utility) Rate Areas No. 2 & 4	Replacing Schedule	21	Sheet1
(Territory to which schedule is applicable)	which was filed	November	12, 1998
No supplement or separate understanding shall modify the tariff as shown hereon.	Sheet 1	of 1	Sheets
RESIDENTIAL HOMI	E ENERGY REPORT PILOT PR Schedule RHER	ROGRAM	
PURPOSE:			
The Residential Home Energy Report Pi schedules: (1) RTOU; (2) RD; and (3) RDT 3,000 residential customers who receive se is a behavioral energy efficiency and educate energy usage information with similar types be delivered in paper, and/or email formaticustomers understand and manage their neighbor/similar home comparison; (2) ene utility program promotional material. The influence customers' behavior to lower energing the school of the school	OU (Residential Pilots). Therefore ervice under one of the three Relational program that provides a sof customers, or "neighbors". The and is composed of several menergy use. A few examples of the examples	ore, the progra esidential Pilots comparison of the Home Ener nodules of info of modules in- energy efficier	m is directed to s. This Program f the household rgy Report shall rmation to help cluded are: (1) ncy tips; and (4)
AVAILABILITY:			
Participation in this Program is limited to poperate as an opt-out only program, meani program and will allow opt-out if desired.			
PROGRAM FUNDING:			
The total Program budget will be allocated delivery; (2) administration; and (3) evaluation and its costs shall be eligible schedule EE, subject to the provisions there	ion (labor and loadings excluded e for recovery under the Compa	d from adminis	tration budget).
EVALUATION:			
The Company will hire a third-party evalua (EM&V) on the Home Energy Report Pilot F		easurement, a	and Verification
Issued: May 1, 2018			
Month Day Year			
Effective: Month Day Year			
By: /s/ Darrin R. Ives Vice Preside	ent		

THE STATE CORPORATION COMMISSION OF KANSAS SCHEDULE KANSAS CITY POWER & LIGHT COMPANY (Name of Issuing Utility) Replacing Schedule 22 Sheet 1 Rate Areas No. 2 & 4 (Territory to which schedule is applicable) which was filed November 12, 1998 No supplement or separate understanding shall modify the tariff as shown hereon. Sheet of 1 Sheets RESIDENTIAL SMART THERMOSTAT PILOT PROGRAM Schedule RSTP **PURPOSE:** The Residential Smart Thermostat Pilot Program will directly support the three residential pilot schedules: (1) RTOU; (2) RD; and (3) RDTOU (Residential Pilots). Therefore, the program is directed to 3,000 residential customers who receive service under one of the three Residential Pilots. Customers participating in one of the three Residential Pilots may receive a smart thermostat. This Program is intended to support residential customers in their transition to a Residential Pilot by providing them with a smart thermostat. The smart thermostats have several features and capabilities that can help customers decrease their energy use, which include: (1) scheduled programming/learning capability; (2) recommended ecotemperatures; and (3) auto-away settings. The Company may leverage other technologies, and programs, to advance the smart thermostat software in an effort to maximize support to customers on a Residential Pilot by managing their energy use to meet Company objectives for load shaping. **AVAILABILITY:** Customers must maintain a secure home Wi-Fi enabled internet service and have a working central air conditioning system or heat pump. Residential property owner's (owner occupant or landlord for a rental property) permission is required to receive a smart thermostat at an incentive level determined by the Company. Customers must agree to install the smart thermostat at their premise receiving service under one of the Residential Pilots within fourteen (14) days of receiving the device, and keep it installed, operational, and connected to a secure home Wi-Fi network for the duration of the program. Customers must agree to not sell the device for the duration of the program. If it is found that they do, a debit will be issued on their utility bill for the Manufacture Suggested Retail Price (MSRP) of the smart thermostat or the value of incentive provided to the customer. Payment of that debit will be the customer's responsibility. **PROGRAM FUNDING:** The total Program budget will be allocated between the following budget categories: (1) program delivery; (2) marketing; (3) administration; and (4) evaluation (labor and loadings excluded from administration budget). This Program and its costs shall be eligible for recovery under the Company's Energy Efficiency Rider, Schedule EE, subject to the provisions thereof. **EVALUATION:** The Company will hire a third-party evaluator to perform an Evaluation, Measurement, and Verification (EM&V) on this Program. May 1, 2018 Issued: Month Effective:

Month

/s/ Darrin R. Ives

By:

Day

Year

Vice President

THE STATE CORPORATION COMMISSION OF KANSAS						
	SCH	Æ	E 20			
KANSAS CITY POWER & LIGHT COMPANY						
(Name of Issuing Utility)	Replacing Schedule		20		Sheet	1
Rate Areas No. 2 & 4						
(Territory to which schedule is applicable)	which was filed		Decemb			
No supplement or separate understanding						
shall modify the tariff as shown hereon.	Sheet	1	of	3	Sheet	ts

PUBLIC ELECTRIC VEHICLE CHARGING STATION SERVICE Schedule CCN

PURPOSE:

The Company owns electric vehicle (EV) charging stations throughout its Kansas service territory that are available to the public for purpose of charging an EV and may be used by any EV owner who resides either within or outside the Company's Kansas service territory.

AVAILABILITY:

This rate schedule applies to all energy provided to charge EVs at the Company's public EV charging stations. EV charging service will be available at Company-owned EV charging stations installed at Company and Host locations. The EV charging stations are accessed by using a card provided to users with an established account from the Company's third party vendor.

HOST PARTICIPATION:

EV charging stations are located at Company and Host sites. A Host is an entity within the Company's Kansas service territory that applies for and agrees to locate one or more Company EV charging stations on its premise(s). Host applications will be evaluated for acceptance based on each individual site and application. If a Host's application is approved, the Host must execute an agreement with the Company covering the terms and provisions applicable to the EV charging station(s) upon their premise. No Host shall receive any compensation for locating an EV charging station upon their premise(s).

The maximum number of EV charging stations identified by the Company for its Kansas service territory under this Schedule CCN is 350. The Company may not exceed 350 EV charging stations under this tariff without approval of the State Regulatory Commission.

PROGRAM ADMINISTRATION:

Charges under this Schedule CCN will be administered and billed through either the Company's third party vendor on behalf of the Company, or directly by the Company depending upon the Billing Option chosen by the Host.

BILLING OPTIONS:

The charges applicable to an EV charging station session shall include an Energy Charge for each kilowatt-hour (kWh) provided to charge an EV, and an optional Session Overstay Charge dependent on the Billing Option chosen by the Host.

Issued:		May 1, 2018				
	'	Month	Day	Year		
Effective:						
	_	Month	Day	Year		
By:	/s/D	arrin R. Ives		Vice Preside	ent	
				Title		

THE STATE CORPORATION COMMISSION OF KANSAS							
	SCHEDULE			E 20			
KANSAS CITY POWER & LIGHT COMPANY							
(Name of Issuing Utility)	Replacing Schedule	20			Sheet	2	
Rate Areas No. 2 & 4							
(Territory to which schedule is applicable)	which was filed	December 2, 2016					
No supplement or separate understanding							
shall modify the tariff as shown hereon.	Sheet	2	of	3	Sheets		
PURUS EL FOTRIO VELIGO		N 055	\//OF				
PUBLIC ELECTRIC VEHICLI	E CHARGING STATIC	JN SEK	VICE				

Schedule CCN (Continued)

BILLING OPTIONS: (Continued)

A Host may choose between one of two Billing Options for all EV charging stations located upon their premise(s). The Host's agreement with the Company will identify the chosen Billing Option applicable to EV charging stations located on its premise(s). The EV charging station screen, and third party vendor's customer web portal, identify the applicable Energy and Session Overstay Charges that will be the responsibility of the user at each EV charging station location.

- 1. Option 1: The Host pays the kWh Energy Charge plus applicable taxes and fees, and, if applicable, the EV charging station user pays the Session Overstay Charge.
- 2. Option 2: The EV charging station user pays the kWh Energy Charge plus taxes and fees, and, if applicable, the Session Overstay Charge.

RATES FOR SERVICE:

The EV charging station screen and third party vendor's customer web portal will identify both the: (1) per kWh rate as equal to the Energy Charge plus applicable taxes and fees; and (2) any Session Overstay Charge rate(s) applicable to that charging station.

1. Energy Charge (per kWh)

> Level 2: \$0.20000

> Level 3: \$0.25000

2. Session Overstay Charge (Optional) (per hour): \$0.00 - \$6.00

The Energy Charge shall be defined as a flat rate per kWh, and reflect the inclusion of the: (1) Energy Cost Adjustment (ECA); (2) Energy Efficiency Rider (EER); (3) Property Tax Surcharge (PTS); (4) Transmission Delivery Charge (TDC); and (5) Tax Adjustment (TA). A Session shall be defined as the period of time an EV is connected to the charging station. The Session Overstay Charge is an option that can be implemented at the discretion of the Host and Company to promote improved utilization of the EV charging station(s) located upon their premise.

Issued: May 1, 2018					
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Effective:					
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By:	/s/ Da	arrin R. Ives			Vice President
-					Title

THE ST	TATE CO	ORPORATION CO	MMISSIO	N OF KANSAS	SCF	HEDUL	E		20				
KANSAS CITY POWER & LIGHT COMPANY					SCI				20				
	(Name of Issuing Utility) Rate Areas No. 2 & 4				Replacing Schedule	ule20			Sheet _	3			
		to which schedule is app			which was filed		Decembe	er 2, 2	. 2016				
		or separate understa											
shall mo	dify the	tariff as shown here	eon.		Sheet	3	of	3	Sheet	ts			
DATES	FOR S	PUBLIC			IARGING STATION (CCN (Continued)	SERVIO	CE						
KAIES		•	•	narge will be con	figured within the follo	owina a	uidelines	s as e	either Ch	arge-			
	The optional Session Overstay Charge will be configured within the following guidelines as either Charge-Based or Time-Based at the discretion of the Host.												
	1. Charge-Based – A Charge-Based Session Overstay Charge starts when the EV has stopped charging (but is still connected to the EV charging station) plus a defined grace period granting the user time to end the Charge Session and move the EV.												
	2. Time-Based – A Time-Based Session Overstay Charge starts at either the time of initial EV plugin, or, a predefined time in an active Charge Session (e.g., two hours after initial plug-in) at the Host's discretion and may increase to a higher rate at a subsequent predefined time in an active Charge Session (e.g., four hours after initial plug-in).												
	Session Overstay Charges for fractional hours will be prorated. The Session Overstay Charge rate may not exceed \$6.00 per hour.												
BILLIN	G:												
	party		ation on		ations must have an count can be found								
	All charges applicable to any user of an EV charging station under Billing Option 1 or 2 will be billed directly through the Company's third party vendor. All charges applicable to the Host under Billing Option 1 will be billed directly through the Company.												
REGUL	ATION	S:											
	Subjec	t to Rules and Re	gulations	filed with the Sta	te Regulatory Commi	ssion.							
<u> </u>			1.0016										
Issued:		Ma Month	y 1, 2018 Day	Year									
Effective	۵٠												
L1100 t1 V	_	Month	Day	Year									

Vice President

By:

/s/ Darrin R. Ives