Exhibit No.:

Issue: Clean Charge Network; Sales

Revenues

Witness: Tim M. Rush

Type of Exhibit: True-Up Rebuttal Testimony

Sponsoring Party: Kansas City Power & Light Company

Case No.: ER-2016-0285

Date Testimony Prepared: March 10, 2017

#### MISSOURI PUBLIC SERVICE COMMISSION

CASE NO.: ER-2016-0285

#### TRUE-UP REBUTTAL TESTIMONY

**OF** 

#### TIM M. RUSH

#### ON BEHALF OF

#### KANSAS CITY POWER & LIGHT COMPANY

Kansas City, Missouri March 2017

\*\*" Designates "Highly Confidential" Information.

All Such Information Should Be Treated Confidentially

Pursuant To 4 CSR 240-2.135.

#### TRUE-UP REBUTTAL TESTIMONY

#### OF

#### TIM M. RUSH

#### Case No. ER-2016-0285

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	Q:	Are you the same Tim M. Rush who pre-filed Direct, Rebuttal, and Surrebuttal	
5		Testimony in this matter?	
6	A:	Yes, I am.	
7	Q:	What is the purpose of your True-Up Rebuttal Testimony?	
8	A:	The purpose of this True-Up Rebuttal is to respond to certain questions that were brough	
9		up during the hearings by Chairman Hall regarding the Clean Charge Network ("CCN")	
10		for the electric charging stations as well as provide additional information related to the	
11		information requested by Chairman Hall and filed by the Company as Exhibit 169. I will	
		also address the Unit Sales and Sales Revenues presented by Staff's in its true-up filing.	

#### **ELECTRIC VEHICLE CHARGING STATIONS**

2	Q:	Chairman Hall inquired during the hearings about the separation of costs between
3		the distribution facilities and the charging stations in this proceeding. This
4		information was provided as Exhibit 169 filed shortly after the hearings. Can you
5		provide cost breakdown to show how much has been spent on distribution facilities
6		and the costs to purchase the ChargePoint charging stations?
7	A:	Yes. As of December 31, 2016, the Company has spent ** on ChargePoint
8		charging stations (approximately ** of total costs) and ** on
9		installation and materials for the installation of the charging stations and the meter
10		pedestal in the KCP&L-MO territory for a current total of \$4,978,178. The remainder,
11		**, was spent on the meter pedestal where the meter is set.
12	Q:	Chairman Hall further went on to develop his view of an alternative concept that
13		splits the electric vehicle charging station network between distribution plant and
13 14		splits the electric vehicle charging station network between distribution plant and the electric charging station. Please provide your understanding of this concept and
		•
14	A:	the electric charging station. Please provide your understanding of this concept and
14 15	<b>A</b> :	the electric charging station. Please provide your understanding of this concept and how this would impact the CCN.
14 15 16	<b>A</b> :	the electric charging station. Please provide your understanding of this concept and how this would impact the CCN.  The concept, as I understand Chairman Hall's view, is that the regulated utility service
14 15 16 17	A:	the electric charging station. Please provide your understanding of this concept and how this would impact the CCN.  The concept, as I understand Chairman Hall's view, is that the regulated utility service surrounding an electric vehicle charging station would only be related to the distribution
14 15 16 17 18	<b>A</b> :	the electric charging station. Please provide your understanding of this concept and how this would impact the CCN.  The concept, as I understand Chairman Hall's view, is that the regulated utility service surrounding an electric vehicle charging station would only be related to the distribution assets up to the charging station and that the battery charging provided by the charging
14 15 16 17 18 19	A:	the electric charging station. Please provide your understanding of this concept and how this would impact the CCN.  The concept, as I understand Chairman Hall's view, is that the regulated utility service surrounding an electric vehicle charging station would only be related to the distribution assets up to the charging station and that the battery charging provided by the charging station would be a non-regulated retail service. As such, I believe Chairman Hall's
14 15 16 17 18 19 20	A:	the electric charging station. Please provide your understanding of this concept and how this would impact the CCN.  The concept, as I understand Chairman Hall's view, is that the regulated utility service surrounding an electric vehicle charging station would only be related to the distribution assets up to the charging station and that the battery charging provided by the charging station would be a non-regulated retail service. As such, I believe Chairman Hall's concept also would follow that the costs, both capital and O&M for the distribution

specific rate to be billed to hosts who are selling energy to drivers using their charging station. Essentially, the charging station would be unregulated and be able to charge whatever price it determined appropriate.

#### 4 Q: Would this concept change how existing charging stations are operated by KCP&L?

A: Yes. It would dramatically and fundamentally change the operations currently in place.

#### Why do you say this?

Q:

A:

First, the Company's proposal in this case is to allow retail customers throughout the service territory that currently have KCP&L owned charging stations installed on their premises to simply pay one bill for all the electric service including CCN service offered to customers at no cost. This type of billing arrangement could no longer be offered under the Chairman's plan. The reason is that the Company would own the charging station as an unregulated operation, but would not receive any revenues to support the unregulated charging station.

KCP&L has proposed to set a tariffed rate for electricity delivered to an electric vehicle through either its Level 2 or Level 3 (DC Fast) chargers where the retail customer who is providing the site for the station has determined that it does not want to provide the electric vehicle charging at no cost and that the utility would then provide the charging at the tariffed price.

If the service were to become unregulated, the owner of the charging station would purchase energy from KCP&L and then set the ultimate price to bill the driver. The owner could charge high or low prices depending on how the owner choose to utilize the charging stations and whether they are being used to get customers into stores or

incent other behavior. Since this is a resale of electricity, it may become a Commission issue on such things as predatory pricing.

Q:

**A**:

The charging stations which the Company bought were purchased specifically for the use by a regulated utility. As such, these stations are an integrated component of the utility, offering a number of specific advantages to the utility that would most likely be of little interest to an independent party with a charging station. This is discussed later in my testimony.

It may be in the Commission's interest to approve a tariff rate to be billed by the charging station owners to the vehicle to allow KCP&L to recover all expenses related to regulated operations.

Lastly, because this is a developing market, there is a risk that other parties would not participate in the installation of the charging stations and the market would stagnate.

# Would KCP&L be adversely impacted by changing the method of recovery and characterization of the existing CCN investment?

Yes. The CCN was designed and constructed to be operated as a part of KCP&L's regulated operations. The costs have been incurred to supply customers with the services they require and to reconstruct the manner of cost recovery at this point in the project would have negative implications. The Company believes that the continued, and accelerating, growth of electric vehicle ownership and usage in its service territory is due to the availability of Company-owned charging stations which have both capital and O&M costs associated with each location. As such, if the Commission desires to define charging as an unregulated retail service and distribution to the stations as a regulated service, the Company requests this change to be on a going-forward basis and not for

1		those CCN installation already installed. Changing the existing stations to reflect	
2		Commissioner Hall's concept, as explained above, would create significant problems	
3		with the existing system.	
4	Q:	Would the Company be opposed to Chairman Hall's concept moving forward?	
5	A:	No. As previously stated, the Company is comfortable with the idea to allow for third-	
6		party owners and operators of electric vehicle charging stations. If the tariffs and statutes	
7		are modified to create this opportunity and define standards such as guidelines for EV	
8		charging station installation, which may include guidelines in pricing, complaints, etc.,	
9		then the Company thinks the Chairman's proposal may work	
10	Q:	Why does the Company oppose this change being implemented now to include the	
11		CCN?	
12	A:	As stated above, the charging stations purchased by KCP&L for the CCN were designed	
13		as a regulated network to allow for benefits to be realized by all customers. In order to	
14		realize these benefits KCP&L purchased a specific plan from ChargePoint that provides	
15		the following features:	
16		• Peak Load Monitoring and Analytics – Gives KCP&L the ability to measure peak and	
17		average power and energy consumption in 15 min intervals	
18		• Energy Management API Access – Gives KCP&L the ability to manage demand in	
19		software dashboard or connect your own tools via the API	
20		Power Output and Control-Gives KCP&L the option for real-time power output and	
21		control of multiple arbitrary groups of stations	
22		With this plan KCP&L and the Commission can obtain data necessary to evaluate usage	
23		utilization, charging profiles, and impacts to the local distribution grid.	

The data can be utilized to design the proper pricing and demand response programs including the future potential for Vehicle to Grid integration. TOU pricing could be utilized at a future time after an analysis of data is completed and the usage profiles of different location types are understood.

A.

The Company believes that if the existing charging stations installed by the KCP&L are non-regulated the ability for the Commission to implement benefits such as TOU pricing or improve demand response programs would be eradicated, yet the Company will still be burdened with the costs incurred to achieve those benefits.

## Q. Would de-regulating the existing CCN stations allow the Company and third party charging station owners to participate on a level playing field?

No. The Company would be at a disadvantage with the charging stations that have been deployed. A non-regulated entity would not take into consideration the grid optimization aspects of having a grid enabled network of charging stations. Therefore, a non-regulated entity would most likely opt for a plan negating any demand response capabilities significantly reducing the cost per station.

KCP&L also believes that the typical non-regulated private entity is installing charging stations for a separate set of benefits outside of revenue from charging stations. Workplaces install stations to attract employees. Retailers install charging stations because attracting EV drivers positively impact their bottom line when EV drivers buy more products in their store. As a non-regulated operation, KCP&L does not have the access to these other benefits derived from charging stations and would rely solely upon the incremental revenue obtained to offset the cost.

### 1 Q: Would customers be negatively impacted if all stations are determined to be non-2 regulated?

Q:

A:

O:

A: Yes. Public utilities serve a certificated area that includes all customers in that area. This would include underprivileged regions. The deployment of the CCN included all of our certificated area, which included all areas. Entities who may install EV charging stations are not required to serve all areas and as such may not take this into consideration. Stations could be installed randomly across the state in a cherry-picked fashion by unregulated entities.

#### Could allowing the CCN stations remain regulated mitigate this risk?

Yes. In time, the Company expects enough information will be gathered by the CCN and shared with regulators so that informed forecasts can be made for deployment requirements of the new, evolving EV mobile customer market. Such data will be beneficial in determining the design and language for crafting legislation and or tariffs for the EV charging station infrastructure that makes sense for Missouri.

The Company believes that if the retail service concept is designed properly and takes into consideration items such as distribution system impact, installation guidelines, and charging station capability requirements, the model could produce benefits that would be realized by the Company, hosts, and consumers simultaneously.

#### So what is the position of the Company with regard to Chairman Hall's concept?

While this may work for the future, I think that the current investment that the utility has made should remain regulated and that the tariff proposed by the Company, less the session charge should be approved. Additionally, the Company should work closely with

Commission, Staff, OPC and other interested parties to further develop Commissioner Hall's concept before implementation.

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#### **UNIT SALES & SALES REVENUES**

Q: Does the Company still have an issue with the Staff's proposed unit sales and sales revenues proposed in this case?

Yes. The Company still has issue with the Staff's exclusion of the MEEIA Cycle 1 unit sales and revenue adjustment. Additionally, the Staff notified the Company shortly prior to filing its true-up direct testimony that it had discovered an error in its unit sales, sales revenues and fuel and purchased power costs and its energy allocator and that the those elements that the Company had relied upon prior to its filing would be changing in the direct filing. Another error was discovered after the true-up direct was filed with the unit sales, sales revenue and fuel and purchased power and energy allocator. It is my understanding that these changes have been made in Staff's EMS model and will be reflected in its True-up Rebuttal Testimony (Missouri retail revenues \$837,968,946 and Missouri Retail Sales will be 8,412,099,098 kWh's). I believe at this point that if the changes that have been communicated between Staff and Company take place and are reflected in the Staff EMS run, then the Company does not have an issue with the unit sales and sales revenue or the energy allocator beyond the need to adjust the unit sales, sales revenue and fuel and purchased power to reflect the impact of the MEEIA Cycle 1 unit sales and revenue adjustment. However, True-up Rebuttal testimony is being filed by Burton Crawford pertaining to an issue remaining with Power Market Prices and the impact they have on fuel and purchased power costs.

- 1 Q: Does that conclude your True-Up Rebuttal Testimony?
- 2 A: Yes, it does.

### BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service	) Case No. ER-2016-0285				
AFFIDAVIT OF TIM M. RUSH					
STATE OF MISSOURI )					
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 Direct	or, Regulatory Affairs.				
2. Attached hereto and made a part he	ereof for all purposes is my True-Up Rebuttal				
Testimony on behalf of Kansas City Power & Lig	ght Company consisting ofnine				
(9 ) pages, having been prepared in written for	rm for introduction into evidence in the above-				
captioned docket.					
3. I have knowledge of the matters set	t forth therein. I hereby swear and affirm that				
my answers contained in the attached testimony to	o the questions therein propounded, including				
any attachments thereto, are true and accurate to	the best of my knowledge, information and				
belief.	Im All Rush				
Subscribed and sworn before me thisday of	March 2017.				
My commission expires: The way 2019	Public    MCOLE A. WEHRY     Notary Fublic - Notary Seal     State of Missouri     Commissioned for Jackson County     My Commissioned Expires: February 04, 2019     Commissioned Mumber: 14391200				