Exhibit No.: Issue: Rate Design, Witness:Robert WagnerSponsoring Party:Robert WagnerType of Exhibit:Surrebuttal TestimonyCase No.:ER-2010-0355 Date Testimony Prepared: January 5, 2011

Outdoor Lighting ER-2010-0356

## MISSOURI PUBLIC SERVICE COMMISSION

## CASE NO. ER-2010-0355

## CASE NO. ER-2010-0356

### SURREBUTTAL TESTIMONY

### OF

## **ROBERT WAGNER**

### **ON BEHALF OF**

## **ROBERT WAGNER**

Kansas City, Missouri January 2011

> Wagner Exhibit No KCPL2803 Date 2/4/11 Reporter LMB File No\_ ER-2010-039

#### 1 Q PLEASE STATE YOUR NAME AND ADDRESS

2 A My name is Robert Wagner and my address is 9005 N Chatham Avenue, Kansas City, MO
64154.

#### 4 Q WITH WHAT ORGANIZATION ARE YOU AFFILIATED WITH AND IN WHAT

#### 5 CAPACITY?

6 A The International Dark-Sky Association. I serve as the President of the Board of Directors.

#### 7 Q ON WHOSE BEHALF ARE YOU TESTIFYING?

- 8 A I am testifying on behalf of myself, Robert Wagner, Pro Se Intervener
- 9 Q HAVE YOU FILED TESTIMONY PREVIOUSLY BEFORE THE COMMISSION?
- 10 A Yes, I filed direct and rebuttal testimony in ER-2010-0355 and ER-2010-0356.
- 11 Q WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?
- 12 A The purpose of my testimony is to address the Rebuttal Testimony of William P. Herdegen
- 13 III, related to outdoor street and area lighting.

#### 14 Q WHAT IS YOUR GENERAL VIEW OF MR. HERDEGEN'S REBUTTAL

#### 15 **TESTIMONY**?

- 16 A Mr. Herdegen's rebuttal testimony presents opposing views and offers little additional
- 17 evidence. He presents a two-birds in the bush are better than one in the hand argument,
- 18 then fails to back up his claims. Additionally, he mentions that the Companies are
- 19 interested in improving the "life in the communities they serve always being
- 20 environmentally aware and responsible." (ER-2010-0355, Herdegen Rebuttal, p. 3, L. 15-
- 21 16 / ER-2010-0356, Herdegen Rebuttal, p. 3, L. 8-9 ) I have been trying to work with the
- 22 Companies since 2005 and have seen no interest in working with me on light pollution
- 23 concerns. Mr. Herdegen also interprets communities interest in LED lighting as an interest

1		in the product itself rather than a plea to provide additional choices and lower cost lighting.
2		A 14% increase in rates is significant and the only choice the Companies have currently
3		proposed in order to keep cities within budget is to remove 14% of lights. Since the
4		Companies also bind their customers to large removal fees through their rules, their
5		customers will suffer a major financial hit. If this rate increase goes through, I would also
6		recommend the Commission waive removal fees and institute a low cost conversion to
7		part-night lighting during any outdoor lighting rate increase.
8	Q	SHOULD THE COMMISSION AND OTHER PARTIES TO THESE CASES
9		ASSUME THAT IF YOU HAVE NOT REBUTTED AN ITEM THAT YOU AGREE
10		WITH MR. HERDEGEN'S POSITION ON THAT ITEM?
11		
11	A	No.
12	A	No. Voluntary Part-Night Rates for Outdoor Lighting
12		Voluntary Part-Night Rates for Outdoor Lighting
12 13	Q	<u>Voluntary Part-Night Rates for Outdoor Lighting</u> MR. HERDEGEN MENTIONS THAT THIS MAY INCREASE LIABLITY. HOW
12 13 14	Q	<u>Voluntary Part-Night Rates for Outdoor Lighting</u> MR. HERDEGEN MENTIONS THAT THIS MAY INCREASE LIABLITY. HOW DO YOU RESPOND?
12 13 14 15	Q	<u>Voluntary Part-Night Rates for Outdoor Lighting</u> MR. HERDEGEN MENTIONS THAT THIS MAY INCREASE LIABLITY. HOW DO YOU RESPOND? Part-night lighting has been in use in the United States for some time. As communities are
12 13 14 15 16	Q	Voluntary Part-Night Rates for Outdoor Lighting MR. HERDEGEN MENTIONS THAT THIS MAY INCREASE LIABLITY. HOW DO YOU RESPOND? Part-night lighting has been in use in the United States for some time. As communities are faced with rising utility rates, fluctuating tax revenues and a need to reduce green house
12 13 14 15 16 17	Q	Voluntary Part-Night Rates for Outdoor Lighting         MR. HERDEGEN MENTIONS THAT THIS MAY INCREASE LIABLITY. HOW         DO YOU RESPOND?         Part-night lighting has been in use in the United States for some time. As communities are         faced with rising utility rates, fluctuating tax revenues and a need to reduce green house         gas emissions; they are looking at alternative ways for conservation. The city of Santa
12 13 14 15 16 17 18	Q	Voluntary Part-Night Rates for Outdoor Lighting         MR. HERDEGEN MENTIONS THAT THIS MAY INCREASE LIABLITY. HOW         DO YOU RESPOND?         Part-night lighting has been in use in the United States for some time. As communities are faced with rising utility rates, fluctuating tax revenues and a need to reduce green house gas emissions; they are looking at alternative ways for conservation. The city of Santa Rosa, CA <sup>1</sup> has taken this opportunity to reevaluate their roadway warranting program and

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<sup>&</sup>lt;sup>1</sup> http://ci.santa-rosa.ca.us/doclib/Documents/Street\_Light\_Reduction\_Program.pdf

Transportation's Highway Illumination Manual: Lighting Curfews<sup>2</sup> discusses both the 1 positive aspects and identifies concerns a community should review prior to changing 2 3 lighting. In particular they mention that: "By providing full lighting during periods when volumes are high and the roadway 4 5 operates near capacity and providing reduced lighting as the traffic decreases, the 6 potential exists for realizing considerable energy savings while still providing the 7 benefits of full lighting at locations (e.g., interchanges) and at times (i.e., high volumes) where driver decision-making is the most critical and the greatest visibility 8 9 is required." (FHWA/RD-86/018, Reduced Lighting on Freeways During Periods of 10 Low Traffic Density) 11 In addition the American Association of State Highway and Transportation Officials

12 (AASHTO) recognizes the valid need for streetlight curfews as documented in the October 13 2005 Roadway Lighting Design Guide. AASHTO is recognized by the United States 14 Federal Highway Administration as the premier organization in formulating highway 15 policy. Certainly the practice of using curfews for streetlights can be presumed to be legal, 16 since AASHTO would never be involved in recommending illegal policies and practices. 17 Under their Reasons for Curfews, they note: "Recent studies show that light dimming and 18 turn-off curfews are viable options for the management of public lighting systems, 19 including roadway lighting." (AASHTO Roadway Lighting Design Guide, Reasons for 20 Curfews - Page 7, October 2005). Communities have the choice on how they make they 21 roadways safe, there is not a state or national mandate that this must be accomplished 22 through lighting. Indeed it should be noted that most of the roadways in our state do not 23 have continuous lighting. If such a mandate did exist, then we would expect to see every

<sup>&</sup>lt;sup>2</sup> http://onlinemanuals.txdot.gov/txdotmanuals/hwi/lighting\_curfews.htm

1		road with continuous lighting and street lighting would be mandatory. This is a burden
2		that neither the state nor federal government has imposed to date. Private businesses
3		should also be able to save energy as they see fit. Businesses leasing private area lighting
4		from the Companies will only be able to realize similar savings if a rate is made available
5		in the Companies' tariffs for midnight shutoff of private area lighting.
6	Q	MR. HERDEGEN MENTIONS THAT DOUBLE-CYCLING LIGHTS WILL
7		REDUCE LAMP LIFE AND INCREASE THE REPLACEMENT FREQUENCY
8		AND COSTS (ER-2010-0355, Herdegen Rebuttal, p. 18, L. 11-12 / ER-2010-0356,
9		Herdegen Rebuttal, p. 17, L. 4-5). HOW DO YOU RESPOND?
10	A	Mr. Herdegen is correct that lamp rated life will be reduced slightly, but is confusing rated
11		life with overall life from install date till burnout. However, he provides nothing to back
12		the claim that this will increase the lamp replacement frequency and costs. Reduced lamp
13		rated life will be more than offset by reduced usage and result in a reduction in the
14		replacement frequency and costs.
15	Q	MR. HERDEGEN MENTIONS THAT GROUP RELAMPING WILL LEAVE
16		MANY CUSTOMERS IN THE DARK UNTIL A RE-LAMPING EVENT OCCURS
17		(ER-2010-0355, Herdegen Rebuttal, p. 17, L. 17-18 / ER-2010-0356, Herdegen
18		Rebuttal, p. 16, L. 13-14). HOW DO YOU RESPOND?
19	Α	Mr. Herdegen is obviously unfamiliar with group relamping programs. These programs
20		are designed to leave the customer with no periods of darkness. Occasional, one-off
21		fixture repairs still occur, but at a greatly reduced rate. The debate over whether or not
22		group or individual relamping is more cost effective can only be solved by working
23		through the worksheet provided in my direct testimony and auditing the results. Similar

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1	information to the EPA report is available in IES DG-4-03, Design Guide for Roadway
2	Lighting Maintenance; but that document is copyright protected from duplication. To date,
3	Mr. Herdegen has not provided any worksheets to validate his response. The main concern
4	with group relamping is ensuring the lighting system does not degrade beyond design
5	specifications. Mr. Herdegen's insistence that an inexpensive, lumen depreciated bulb
6	(when combined with luminaire dirt depreciation that has depreciated the luminaires output
7	to 50 percent or more of the initial luminaire output) is more valuable than maintaining the
8	quality of the lighting system should be taken into account when considering whether or
9	not the Companies are acting in the best interest of the public.
10	Inclusion of rates for lower wattage high pressure
11	sodium outdoor lamps
12 <b>Q</b>	MR. HERDEGEN MENTIONS THAT 50W LIGHTS MAY NOT PROVIDE
12 <b>Q</b> 13	MR. HERDEGEN MENTIONS THAT 50W LIGHTS MAY NOT PROVIDE SUFFICIENT LIGHT. HOW DO YOU RESPOND?
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13	SUFFICIENT LIGHT. HOW DO YOU RESPOND?
13 14 A	SUFFICIENT LIGHT. HOW DO YOU RESPOND? Lighting is based on the task to be accomplished. Tasks such as walking down a sidewalk
13 14 A 15	SUFFICIENT LIGHT. HOW DO YOU RESPOND? Lighting is based on the task to be accomplished. Tasks such as walking down a sidewalk require less light than say, reading a gasoline receipt. To date, Mr. Herdegen has not
13 14 A 15 16	SUFFICIENT LIGHT. HOW DO YOU RESPOND? Lighting is based on the task to be accomplished. Tasks such as walking down a sidewalk require less light than say, reading a gasoline receipt. To date, Mr. Herdegen has not provided any worksheets to validate his response that a 50W light is unsuitable in every
13 14 A 15 16 17	SUFFICIENT LIGHT. HOW DO YOU RESPOND? Lighting is based on the task to be accomplished. Tasks such as walking down a sidewalk require less light than say, reading a gasoline receipt. To date, Mr. Herdegen has not provided any worksheets to validate his response that a 50W light is unsuitable in every circumstance. Many utilities companies include the 50W HPS light in their rates. When,
13 14 A 15 16 17 18	SUFFICIENT LIGHT. HOW DO YOU RESPOND? Lighting is based on the task to be accomplished. Tasks such as walking down a sidewalk require less light than say, reading a gasoline receipt. To date, Mr. Herdegen has not provided any worksheets to validate his response that a 50W light is unsuitable in every circumstance. Many utilities companies include the 50W HPS light in their rates. When, in decades past, incandescent lamps were used for street lighting, a 200W incandescent
<ol> <li>13</li> <li>14 A</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>	SUFFICIENT LIGHT. HOW DO YOU RESPOND? Lighting is based on the task to be accomplished. Tasks such as walking down a sidewalk require less light than say, reading a gasoline receipt. To date, Mr. Herdegen has not provided any worksheets to validate his response that a 50W light is unsuitable in every circumstance. Many utilities companies include the 50W HPS light in their rates. When, in decades past, incandescent lamps were used for street lighting, a 200W incandescent lamp was often standard. A 50W (4000 lumen) high-pressure sodium lamp today produces
<ol> <li>13</li> <li>14 A</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>	SUFFICIENT LIGHT. HOW DO YOU RESPOND? Lighting is based on the task to be accomplished. Tasks such as walking down a sidewalk require less light than say, reading a gasoline receipt. To date, Mr. Herdegen has not provided any worksheets to validate his response that a 50W light is unsuitable in every circumstance. Many utilities companies include the 50W HPS light in their rates. When, in decades past, incandescent lamps were used for street lighting, a 200W incandescent lamp was often standard. A 50W (4000 lumen) high-pressure sodium lamp today produces the same amount of initial light (lumen) output as a 200W incandescent lamp – a lamp that

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1	Lighting Service, Schedule ML (See Schedule RAW2010-36). Additionally, GMO Sheet
2	88 mentions a 3300 Lumen Mercury Vapor streetlight.
3	Conversion of outdoor lighting rates from listing lumens and wattages
4	to listing expected illumination on the ground
5 Q	MR. HERDEGEN MENTIONS THAT THE COMPANIES WOULD HAVE A
6	PROBLEM PROVIDING REFLECTED ILLUMINATION AS THIS MAY VARY
7	DEPENDING ON THE GROUNDCOVER. HOW DO YOU RESPOND?
8 A	Mr. Herdegen is confusing ground-based illumination (light striking the ground) with
9	ground-based luminance (light reflected off the ground). There is no need to provide
10	ground-based luminance for such a conversion.
11 <b>Q</b>	MR. HERDEGEN SAYS THAT THIS CALCULATION IS BEST LEFT TO THE
12	CUSTOMER'S DESIGNERS AND ENGINEERS (ER-2010-0355, Herdegen
13	Rebuttal, p. 26, L. 6-8 / ER-2010-0356, Herdegen Rebuttal, p. 24, L. 6-7 ). HOW DO
14	YOU RESPOND?
15 A	Many of the lights that the Companies lease have little to no photometric information
16	available to designers and engineers. If the Companies expected designers and engineers
17	to be able to use their lights in a photometric report, they would lease only high quality
18	luminaires that have IES files associated with them. The IES files document the exact
19	output of the light fixture and includes: lumen and directional values, as well as,
20	compliance with national standards. Upon request, the Companies were able to provide
21	only six of fifteen HPS Roadway luminaires' associated IES files, and none for their area
22	or floodlight luminaires. Additionally, the Companies have several different
23	manufacturers for luminaire type. Each of these are unique and compliance using one

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1		particular luminaire may result in a design that is out of compliance using a different
2		replacement model. Providing a minimal ground based illuminance rating for each
3		category will help ensure adequacy.
4		Prohibit the marketing of outdoor lights as safety, security or crime
5		prevention lights without a guarantee to back up this claim
6	Q	MR. HERDEGEN BELIEVES THE CUSTOMERS BENEFIT FROM HAVING
7		THESE CLAIMS IN THE COMPANIES MARKETING MATERIALS. HOW DO
8		YOU RESPOND?
9	A	Of particular concern to customers is civil liability when the Companies' claims are not
10		met. The Companies can make any unsubstantiated claims in order to sell their products,
11		but when they fail to perform as marketed, the customer is left with the liability. The
12		Companies appear to require an Indemnity Agreement requiring the customer pay for any
13		damage or injury to persons or property. The practice of making claims without a
14		guarantee and then requiring the customer to pay to defend the Companies should be
15		eliminated.
16	Q	DO YOU HAVE EVIDENCE THAT SUGGESTS LIGHTING DOES NOT SOLVE
17		CRIME?
18	A	There has been little consensus among professionals as to the question if lighting reduces
19		crime. The Heschong Mahone Group, Inc. released CALMAC Study ID: PGE0269.01,
20		HMG Project #0425 on 11/7/2008 for Pacific Gas and Electric Company, Steve Blanc <sup>3</sup>
21		entitled Outdoor Lighting and Security: Literature Review. Their bibliography references
22		40 reports and they state in their summary:

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<sup>&</sup>lt;sup>3</sup> http://www.calmac.org/publications/Outdoor\_Lighting\_and\_Security\_White\_Paper\_CALMAC\_versionES.pdf

"None of the papers reviewed presents sufficient evidence to demonstrate a causal
link between night-time lighting and crime. The available results show a mixed
picture of positive and negative effects of lighting on crime, most of which are not
statistically significant. This suggests either that there is no link between lighting
and crime, or that any link is too subtle or complex to have been evident in the data,
given the limited size of the studies undertaken."

## 7 Q DOES THIS CONCLUDE YOUR TESTIMONY TODAY?

8 A Yes.

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

In the Matter of the Application of Kansas City Power & Light Company to Modify Its Tariffs to Continue the Implementation of Its Regulatory Plan	) ) )	Case No. ER-2010-0355
In the Matter of the Application of KCP&L Greater Missouri Operations Company to Modify Its Electric Tariffs to Effectuate a Rate Increase	) ) )	Case No. ER-2010-0356

## **AFFIDAVIT OF ROBERT WAGNER**

STATE OF MISSOURI	)
	) ss
COUNTY OF PLATTE	)

Robert Wagner, being first duly sworn on his oath, states:

1. My name is Robert Wagner, I live at 9005 N Chatham Ave, Kansas City, MO, and I am the President of the Board of Directors for the International Dark-Sky Association.

Attached hereto and made a part hereof for all purposes is my Surrebuttal Testimony on 2. behalf of Robert Wagner consisting of  $\underline{eight}$  (§) pages, having been prepared in written form for introduction into evidence in the above captioned dockets.

3. I have knowledge of the matters set 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 best of my knowledge, information and belief.

Robert Wagner

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Subscribed and sworn before me this \_\_\_\_\_\_ day of \_\_\_\_\_, 2011.

	Chiclith	au	CULT TTA WEORING	
	Notary Public		COMMISSION COM	
My commission expires: March 2	7, 2011	701100W	* NOTARY SEAL	*
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THE STATE CORPORATION COMMISSION OF KANSAS	
	SCHEDULE 73
KANSAS CITY POWER & LIGHT COMPANY (Name of Issuing Utility)	Replacing Schedule 73 Sheet 1
Rate Areas 2 & 4	Replacing Schedule Sheet
	which was filed July 24, 2009
No supplement or separate understanding shall modify the tariff as shown hereon.	Sheet 1 of 5 Sheets
MUNICIPAL STREET LI Schedule	GHTING SERVICE
AVAILABILITY:	
Available for street lighting service through a Comp limits of a municipality.	pany-owned Street Lighting System within corporate
TERM OF CONTRACT:	
Contracts under this schedule shall be for a period thereof.	d of not less than ten years from the effective date
RATE (Incandescent):	
1.0. Street lamps equipped with a hood and refle and supplied from overhead circuits by an ex (Code X)	ector, supported on a wood pole or existing trolley pole attension not in excess of 500 feet per unit:
Size of Lamp	Rate per Lamp per Year
1.1 1000 Lumen (65-watt)** 1.2 2500 Lumen (187-watt)*	\$75.96 \$107.52
2.0 Street lamps equipped with a hood, reflector extension not in excess of 500 feet per unit.	r, and refractor, on wood poles served overhead by an (Code IWT)
Size of Lamp	Rate per Lamp per Year
2.1 4000 Lumen (269-watt)* 2.2 6000 Lumen (337-watt)*	\$182.04 \$203.28
·	
*Limited to the units in service on December 28, 197 **Limited to the units in service on December 1, 2010	72, until removed. D, until removed. 10-KCPE-415-RTS
	Approved Kansas Corporation Commi November 22, 2010 /S/ Susan K. Duffy
	SAC
Issued: November 22, 2010	FILED
Effective: December 1, 2010	THE STATE CORPORATION COMMISSION OF KANSAS
By: Curtis D. Blanc Sr. Director	By:
Effective: December 1, 2010	KANSAS

# Schedule RAW2010-36

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(Territory	to which schedule is applicable)	which was f	filed	Julv	24, 2009	
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shall modify the	e tariff as shown hereon.	· · · · · · · · · · · · · · · · · · ·	Sheet	2 <u>of</u>	5	Sheets
		EET LIGHTING SI nedule ML	ERVICE		(Continued	ł) (ł
RATE (Incand	descent): (continued)					
4.0	Street lamps equipped with hood, underground by an extension not in e	reflector, and refra xcess of 300 feet p	actor, on or per unit:	namental s	teel poles	served
4.1	<u>Size of Lamp</u> 4000 Lumen (269-watt) Under Sod*	(1)	<u>per Lamp pe</u> \$285.48	r Year	<i>.</i>	
	(1) Code ISE					
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*Limit	ed to the units in service on December 2	28, 1972, until remo	oveđ.			
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# Schedule RAW2010-36

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		SCH	EDULE	73	
	Y POWER & LIGHT COMPANY				_
	lame of Issuing Utility)	Replacing Schedule	73	Sheet	3
ate Areas 2 &	to which schedule is applicable)		Tester	34 2000	
		which was filed	July	24, 2009	<del></del>
	or separate understanding e tariff as shown hereon.	Sheet	3 of	5 Sheet	s
all mouny an		0.0000			{
		EET LIGHTING SERVICE chedule ML		(Continued)	ļ
ATE (Custo	omer Owned):				
6.0	Street lamps equipped with a hood, maintained and controlled by the Com			alled by custom	er,
	Size of Lamp	Rate pe	er Lamp per Ye	ear	
6.1 6.2	12100 Lumen Limited Maintenance* ( 22500 Lumen Limited Maintenance* (		\$175.44 \$229.56		
6.4 6.5	16000 Lumen Limited Maintenance (* 27500 Lumen Limited Maintenance (*	150-watt) <sup>(1)</sup> 250-watt) <sup>(1)</sup>	\$175.80 \$230.28		
•	<sup>(1)</sup> Code LMX				
ATE (Merc	ury Vapor):		-		
7.0	Post-top, low-mounting street lamps underground by an extension under s				red
7.1	<u>Size of Lamp</u> 8600 Lumen** (175-watt)	<u>Rate per Lamp</u> \$248.5			
** Lir	nited to the units in service on Septembe nited to the units in service on Septembe E: Wattage specifications do not include	er 30, 1985, until removed.	<u>.</u>	·	
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				10-KCPE-415 Approved Corporation November 22, S/ Susan K.	Commiss 2010
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(ssued:	November 22, 2010		FILED		
Effective:	Month Day Year December 1, 2010	THE STATE	CORPORATIO KANSAS	ON COMMISSIC	N OF
By: Cu	rtis D. Blanc Sr. Dire	ctor By:			
~····				Secretary	

## Schedule RAW2010-36

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ANSAS CITY POWER & LIGHT COMPANY			_
(Name of Issuing Utility)	Replacing Schedule	73 Sheet	4
late Areas 2 & 4			
(Territory to which schedule is applicable)	which was filed	July 24, 2009	
o supplement or separate understanding			
all modify the tariff as shown hereon.	Sheet	4 of 5 Sheets	
·			
MUNICIPAL STREET			1
Schedule	e ML	(Continued)	1
	4	-	
RATE (Mercury Vapor and High Pressure Sodium V	vapor):		{
0.0 Denie instaliant			
8.0 <u>Basic Installation:</u> Street lamps equipped with hood, reflector, and r	officiation on wood notion	conved from everyband elizavite	
by an extension not in excess of 200 feet per unit		served norm overhead circuits	
By an extension nor in excess of 200 feet per unit.			1
	Lumen Charge	Total Charge	
	per Lamp	per Lamp	
Size of Lamp	per Lamp	per Lamp per Year <sup>(1)</sup>	
ore or rallh	<u>per redr</u>	<u>Det l'éq</u> t	
8.1 8600 Lumen Mercury Vapor (175-watt)*	\$39.24	\$178.56	·
8.2 12100 Lumen Mercury Vapor (250-watt)*	\$55.08	\$194.40	1
8.3 22500 Lumen Mercury Vapor (200-watt)*	\$104.64	\$243.96	1
and whole within mercent report (100-metry	A LATAL	¥- 10.00	
8.5 5800 Lumen High Pressure Sodium (70-watt)	\$27.60	\$166.92	
8.6 9500 Lumen High Pressure Sodium (100-watt)	\$39.60	\$178.92	
8.7 16000 Lumen High Pressure Sodium (150-watt)	\$55.56	\$194.88	1
8.8 27500 Lumen High Pressure Sodium (250-watt)			
	\$105.00	a/44.3/	
8.9 50000 Lumen High Pressure Sodium (400-watt) (1)Rates above are based on a Base Unit Charge (			
8.9 50000 Lumen High Pressure Sodium (400-watt)	\$245.28 of <u>\$139.32</u> plus a Lumen les the Base Unit Charge	\$384.60 Charge as stated above. Twi e plus (2) times the appropriat	e
<ul> <li>8.9 50000 Lumen High Pressure Sodium (400-watt)</li> <li><sup>(1)</sup>Rates above are based on a Base Unit Charge is units will be billed at one and one-half (1 1/2) tim Lumen Charge.</li> </ul>	\$245.28 of <u>\$139.32</u> plus a Lumen les the Base Unit Charge ptional Equipment shall I	\$384.60 Charge as stated above. Twi plus (2) times the appropriat be added to the rate for Basi	e
<ul> <li>8.9 50000 Lumen High Pressure Sodium (400-watt)</li> <li><sup>(1)</sup>Rates above are based on a Base Unit Charge of units will be billed at one and one-half (1 1/2) tim Lumen Charge.</li> <li>9.0 <u>Optional Equipment</u>. The following rates for Optional Equipment is above for Mercury Vapor</li> </ul>	\$245.28 of <u>\$139.32</u> plus a Lumen les the Base Unit Charge ptional Equipment shall I and High Pressure Sodiu	\$384.60 Charge as stated above. Twi e plus (2) times the appropriat be added to the rate for Basi um Vapor installations only.	e
<ul> <li>8.9 50000 Lumen High Pressure Sodium (400-watt)</li> <li><sup>(1)</sup>Rates above are based on a Base Unit Charge of units will be billed at one and one-half (1 1/2) tim Lumen Charge.</li> <li>9.0 <u>Optional Equipment</u>. The following rates for Optional Equipment.</li> </ul>	\$245.28 of <u>\$139.32</u> plus a Lumen les the Base Unit Charge ptional Equipment shall I and High Pressure Sodiu ditional charge per unit p	\$384.60 Charge as stated above. Twi e plus (2) times the appropriat be added to the rate for Basi um Vapor installations only.	e
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## Schedule RAW2010-36

	SCHEDULE73
KANSAS CITY POWER & LIGHT COMPANY	
(Name of Issuing Utility)	Replacing Schedule 73 Sheet 5
Rate Areas 2 & 4 (Territory to which schedule is applicable)	which was filed to Table 24, 2000
	which was filed July 24, 2009
No supplement or separate understanding shall modify the tariff as shown hereon.	Sheet 5 of 5 Sheets
shah modily the tariff as shown hereon.	
MUNICIPAL STREET LIGHTING SERVICE Schedule ML (Continued)	
RATE (Mercury Vapor and High Pressure Sodium Vapor): (Continued)	
Optional Equipment (continued)	
9.4 <u>Underground service extension, under sod</u> , not in excess of 200 feet. Additional charge per unit per year <u>\$68.52</u> .	
9.5 <u>Underground service extension under concrete</u> , not in excess of 200 feet. Additional charge per unit per year <u>\$370.56</u> .	
9.6 <u>Breakaway base.</u> Additional charge per unit per year <u>\$35.88</u> . (Available with underground service only).	
9.7 <u>Special black square luminaire, *</u> instead of basic installation luminaire. (Available with underground service only). Additional charge per unit per year <u>\$78.84</u> .	
REPLACEMENT OF UNITS: Existing street lamps shall be replaced at the same pole location with a different type of standard unit installation only by mutual agreement of the Company and the Municipality. The Company has the right to replace existing incandescent and mercury vapor street lamps in need of repair or replacement (or on poles in need of repair or replacement) with equivalent high pressure sodium vapor street lamps.	
STANDARD UNITS: Standard street lamps are those mercury vapor or high pressure sodium vapor units for which a rate is stated except those with an X designation in the type code.	
BURNING HOURS: Unless otherwise stated, lamps are to burn each and every day of the year from one-half hour after sunset to one-half hour before sunrise, approximately 4100 hours per year.	
TAX ADJUSTMENT: Tax Adjustment Schedule TA shall be applicable to all customer billings under this schedule.	
ENERGY COST ADJUSTMENT: Energy Cost Adjustment, Schedule ECA, shall be applicable to all customer billings under this schedule. 10-kCPE-415-RTS	
REGULATIONS: Subject to Rules and Regulations filed with the State Regulatory Commission. Kansas Corporation Commission	
* Limited to the units in service on December 1, 2010, until removed. November 22, 2010 /S/ Susen K- Duffy	
SC	
Issued: November 22, 2010	FILED
By: Curtis D. Blanc, Sr. Direc	THE STATE CORPORATION COMMISSION OF KANSAS
By: <u>Curtis D. Blanc</u> Sr. Direc	tor By:
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