New Decorative Lighting Rate Calculations						
Туре		Holophane LED				
Watts		66				
Lumens		6,689				
Annual Cost of Operat	tion:					
Cost of Electric	(Sch. A)	\$ 16.27				
Oper. and Maint.	(Sch. B)	208.58				
Depreciation	(Sch. B)	144.60				
Carrying Costs	(Sch. C)	156.34				
Annual Cost Per Fixtu	re	525.79				
Divide by: 12 Months		12				
Calculated Monthly Ra	ate	\$ 43.82				

Гуре	Holophane
	LED
Vatts	66
umens	6,689
nergy Charges:	
Hours of Operation (Note 1)	4,308.1
Times: Watts	66
Annual Wattage	284,334.60
Divide by: 1,000	1,000
Annual kWh's	284.33
Gross-Up for 4% Line Loss	96%
Annual kWh's Required	296.18
Times: Blended On-Peak/	
Off-Peak Cost of Energy, (Note 2)	\$ 0.0465365
Annual Energy Charge	\$ 13.78
Demand Charges:	
Watts	66
Divide by: 1,000	1,000
kW Demand	0.066
Times: 6 Months (Note 3)	6
Sub-total	0.396
Gross-Up for 4% Line Loss	96%
kW Subject to Demand Charge	0.412500
Times: Demand Charge	\$ 6.02
Annual Demand Charge	\$ 2.48
Annual Electric Cost	\$ 16.27
Note 1	
Total Hours in a Year	
Number of Days per Year Hours per Day	365 24
Fotal Hours during Year	8,760
Fimes: Average Percentage of Darkness	
(See Sch. A, Page 2 of 3)	49.18%
Approximate Hours Outdoor Lighting in Use	4,308
Note 2 The energy rates shown below are paid to EKPO Option 2, effective November 2, 2017, as shown with the KPSC. The blended energy rate calculate	in EKPC's tariff on f

LED lighting is illuminated during periods of on-peak demand and offpeak demand equally. This is the same assumption made in OEC's Tariff Filing No. TFS2018-00368.

On-Peak kWh	\$ 0.050899
Off-Peak kWh	0.042174
Combined Rate	0.093073
Divide by: 2	2
Blended Rate	\$ 0.0465365

Note 3

It was assumed that outdoor lighting contributes to EKPC's coincident peak demand 6 months out of the year. This is the same assumption that was made in OEC's Tariff Filing No. TFS2018-00368.

Minutes of Daylight for each day of 2017, Derived from Table Created by U.S. Naval Observatory as Shown on Page 4

<u>Date</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	May	<u>June</u>	<u>July</u>	<u>August</u>	September	<u>October</u>	November	<u>December</u>
1	572	617	682	759	830	881	888	848	780	706	633	580
2	573	619	684	762	832	882	888	846	778	704	631	579
3	574	621	687	764	834	883	887	844	775	701	629	578
4	575	623	689	767	836	884	886	842	773	699	626	577
5	576	626	692	769	838	885	886	840	770	696	624	576
6	577	628	694	772	840	886	885	838	768	694	622	575
7	578	630	697	774	842	886	884	836	765	692	620	574
8	579	632	699	776	844	887	883	834	763	689	618	574
9	580	634	702	779	846	888	882	832	761	687	616	573
10	581	637	704	781	848	888	881	830	758	684	614	572
11	582	639	707	784	850	889	880	828	756	682	612	572
12	583	641	709	786	851	890	879	826	753	679	610	571
13	585	643	712	788	853	890	878	824	751	677	608	570
14	586	646	714	791	855	890	876	821	748	674	606	570
15	587	648	717	793	857	891	875	819	746	672	605	570
16	589	650	719	796	859	891	874	817	743	670	603	569
17	590	653	722	798	860	891	873	815	741	667	601	569
18	592	655	724	800	862	891	871	813	738	665	599	569
19	593	657	727	803	864	891	870	810	736	663	598	569
20	595	660	729	805	865	892	868	808	734	660	596	569
21	597	662	732	807	867	892	867	806	731	658	594	569
22	598	665	734	810	868	891	865	803	729	656	593	569
23	600	667	737	812	870	891	864	801	726	653	591	569
24	602	669	739	814	871	891	862	799	724	651	590	569
25	604	672	742	816	873	891	860	797	721	649	588	569
26	606	674	744	819	874	891	859	794	719	646	587	569
27	607	677	747	821	875	890	857	792	716	644	585	570
28	609	679	749	823	876	890	855	789	714	642	584	570
29	611	-	752	825	878	889	853	787	711	640	583	571
30	613	-	754	827	879	889	852	785	709	637	582	571
31_	615	-	757	-	880	-	850	782	-	635	-	572
Daylight Minutes	18,309	18,124	22,297	23,821	26,577	26,661	27,038	25,306	22,337	20,772	18,148	17,724
/	,	/	,	,	,_,		,,	_0,000	22,007	20,7.72		27,721
Grand Total Daylight		017										267,114
Plus: Minutes of Dark	rness										_	258,486
Total Minutes 2017 (365 days x	24 hours p	er day x 6	0 minutes	per hour	= 525,600)						525,600
											-	***************************************
Percentage of Dayligh											=	50.82%
Percentage of Minute	es of Darki	ness (appro	ximate pe	rcentage o	of time tha	it outdoor li	ghting is in o	peration)			_	49.18%

Period of Daylight in Owenton, Kentucky during 2017

0 , 0 , Location: W084 50, N38 32 OWENTON, KENTUCKY Eastern Standard Time Astronomical Applications Dept. U. S. Naval Observatory Washington, DC 20392-5420

Duration of Daylight for 2017

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
01	09:32	10:17	11:22	12:39	13:50	14:41	14:48	14:08	13:00	11:46	10:33	09:40
02	09:33	10:19	11:24	12:42	13:52	14:42	14:48	14:06	12:58	11:44	10:31	09:39
03	09:34	10:21	11:27	12:44	13:54	14:43	14:47	14:04	12:55	11:41	10:29	09:38
04	09:35	10:23	11:29	12:47	13:56	14:44	14:46	14:02	12:53	11:39	10:26	09:37
05	09:36	10:26	11:32	12:49	13:58	14:45	14:46	14:00	12:50	11:36	10:24	09:36
06	09:37	10:28	11:34	12:52	14:00	14:46	14:45	13:58	12:48	11:34	10:22	09:35
07	09:38	10:30	11:37	12:54	14:02	14:46	14:44	13:56	12:45	11:32	10:20	09:34
80	09:39	10:32	11:39	12:56	14:04	14:47	14:43	13:54	12:43	11:29	10:18	09:34
09	09:40	10:34	11:42	12:59	14:06	14:48	14:42	13:52	12:41	11:27	10:16	09:33
10	09:41	10:37	11:44	13:01	14:08	14:48	14:41	13:50	12:38	11:24	10:14	09:32
11	09:42	10:39	11:47	13:04	14:10	14:49	14:40	13:48	12:36	11:22	10:12	09:32
12	09:43	10:41	11:49	13:06	14:11	14:50	14:39	13:46	12:33	11:19	10:10	09:31
13	09:45	10:43	11:52	13:08	14:13	14:50	14:38	13:44	12:31	11:17	10:08	09:30
14	09:46	10:46	11:54	13:11	14:15	14:50	14:36	13:41	12:28	11:14	10:06	09:30
15	09:47	10:48	11:57	13:13	14:17	14:51	14:35	13:39	12:26	11:12	10:05	09:30
16	09:49	10:50	11:59	13:16	14:19	14:51	14:34	13:37	12:23	11:10	10:03	09:29
17	09:50	10:53	12:02	13:18	14:20	14:51	14:33	13:35	12:21	11:07	10:01	09:29
18	09:52	10:55	12:04	13:20	14:22	14:51	14:31	13:33	12:18	11:05	09:59	09:29
19	09:53	10:57	12:07	13:23	14:24	14:51	14:30	13:30	12:16	11:03	09:58	09:29
20	09:55	11:00	12:09	13:25	14:25	14:52	14:28	13:28	12:14	11:00	09:56	09:29
21	09:57	11:02	12:12	13:27	14:27	14:52	14:27	13:26	12:11	10:58	09:54	09:29
22	09:58	11:05	12:14	13:30	14:28	14:51	14:25	13:23	12:09	10:56	09:53	09:29
23	10:00	11:07	12:17	13:32	14:30	14:51	14:24	13:21	12:06	10:53	09:51	09:29
24	10:02	11:09	12:19	13:34	14:31	14:51	14:22	13:19	12:04	10:51	09:50	09:29
25	10:04	11:12	12:22	13:36	14:33	14:51	14:20	13:17	12:01	10:49	09:48	09:29
26	10:06	11:14	12:24	13:39	14:34	14:51	14:19	13:14	11:59	10:46	09:47	09:29
27	10:07	11:17	12:27	13:41	14:35	14:50	14:17	13:12	11:56	10:44	09:45	09:30
28	10:09	11:19	12:29	13:43	14:36	14:50	14:15	13:09	11:54	10:42	09:44	09:30
29	10:11		12:32	13:45	14:38	14:49	14:13	13:07	11:51	10:40	09:43	09:31
30	10:13		12:34	13:47	14:39	14:49	14:12	13:05	11:49	10:37	09:42	09:31
31	10:15		12:37		14:40		14:10	13:02		10:35		09:32

Operation and Maintenance Expenses						
Туре		Holophane LED				
Watts		66				
Lumens		6,689				
Original Cost	(Sch. B, Page 1)	\$ 2,713.00				
Times: Percent	(Sch. B, Page 2)	7.688%				
O&M Expense for Fixtu	ure	\$ 208.58				

Following the method used in OEC's Tariff Filing No. TFS2018-00368, OEC estimated O&M expenses for the new outdoor lighting fixtures included in this tariff by multiplying the original cost of each fixture by the percentage derived by dividing OEC's 2018 total O&M expenses by the average balance of its plant in service during the year.

	Annual Depreciation	
Туре		Holophane LED
Watts Lumens		6,689
Original Cost Cost of Fixture Miscellaneous Material Direct Labor Indirect Labor Labor Overhead Transportation	(Sch. D) (Note 1) (Note 2) (Note 3) (Note 4)	\$ 2,199.26 10.00 78.18 178.4: 192.18 54.96
Total Original Cost Times: Depreciation Rate	(Note 5)	\$ 2,713.00 5.33%
Annual Depreciation Acc	rual	\$ 144.60
Estimated Number of Ho	te at 8/1/19 for Union Sevice Technician urs to Install hours used in TFS2018-00368)	\$ 39.09
Direct Labor Capitalized	TO SHOULD BE STOLD WAS DOCUMENTED BY THE STOLD BY	\$ 78.18
Note 2 Indirect Construction Lab Divide by: Direct Constru	or, RUS Account 107.00 ction Labor, RUS Account 107.2	\$2,423,488 1,061,953
Ratio of Indirect Labor to Times: Direct Labor Cost		228.21% 78.18
Indirect Labor Capitalized	for Light Fixture	\$ 178.41
Note 3 Direct Labor Capitalized Indirect Labor Capitalized	ı	\$ 78.18 178.41
Total Labor Times: Labor Overhead F	actor (See Below)	256.59 74.90%
Labor Overhead Capitaliz	ed	192.18
<u>Labor Over</u>	hear Factor	
	of Employee Benefits 2018 Regular Employee Wages	\$7,054,990 9,419,471
Labor Over	head Factor	74.90%
Note 4 Service Truck Hourly Rate Estimated Number of Ho		\$ 27.48 2
Transportation Cost Capi	talized	\$ 54.96
Note 5 Depreciation is calculate existing outdoor lighting	d using the composite depreciation rate	currently used fo

		2018	Fixed	Charge Rate			
Average Distribution Investment 201	18						
Distribution Plant Investment-EOY						\$	254,009,288
Distribution Plant Investment-BOY							245,384,501
Average Investment						\$	249,696,895
					 	-	
Annual Costs as Percent of Average I	Distribution	Plant				Evno	nse As Percent
		Annual					vg Distribution
		Cost				OIA	Plant
1. O&M		COST					rane
Distribution Operations	\$	4,856,165					
Distribution Maintenance	4	4,512,826					
Distribution Maintenance	\$	9,368,991	-				3.752%
	-		=				
2. Consumer and Admin & General							
Customer Accounts	\$	3,992,922					
Customer Service & Information		726,562					
Administrative & General		5,108,542					
	\$	9,828,026					3.936%
	-						
3. Total O&M and A&G Costs							7.688%
4. Depreciation	Ś	13.094.581					5.244%
4. Depreciation	\$	13,094,581					5.244%
	\$	13,094,581					5.244%
	\$	13,094,581 2017		<u>2018</u>	<u>Average</u>		5.244%
Capital Structure	\$		\$	2018 79,559,157	\$ Average 79,513,501		
Capital Structure Debt		2017 79,467,845 49,509,864		79,559,157 55,560,180	79,513,501 52,535,022		60.215%
4. Depreciation Capital Structure Debt Equity (Excludes GTCCs) Total		2017 79,467,845		79,559,157	79,513,501		5.244% 60.215% 39.785% 100%
Capital Structure Debt Equity (Excludes GTCCs) Total	\$	2017 79,467,845 49,509,864		79,559,157 55,560,180	79,513,501 52,535,022		60.215% 39.785%
Capital Structure Debt Equity (Excludes GTCCs) Total	\$	2017 79,467,845 49,509,864		79,559,157 55,560,180	79,513,501 52,535,022		60.215% 39.785%
Capital Structure Debt Equity (Excludes GTCCs) Total Interest and Equity Computations	\$	2017 79,467,845 49,509,864		79,559,157 55,560,180 135,119,337 3,804,853	79,513,501 52,535,022 132,048,523 4.79%		60.215% 39.785%
Capital Structure Debt Equity (Excludes GTCCs) Total Interest and Equity Computations Interest on LTD Using Interest Costs f	\$ \$ \$	2017 79,467,845 49,509,864 128,977,709	\$	79,559,157 55,560,180 135,119,337	79,513,501 52,535,022 132,048,523		60.215% 39.785%
Capital Structure Debt Equity (Excludes GTCCs) Total Interest and Equity Computations Interest on LTD Using Interest Costs f	\$ \$ \$	2017 79,467,845 49,509,864 128,977,709	\$	79,559,157 55,560,180 135,119,337 3,804,853	79,513,501 52,535,022 132,048,523 4.79%		60.215% 39.785%
Capital Structure Debt Equity (Excludes GTCCs) Total Interest and Equity Computations Interest on LTD Using Interest Costs f Margins Would be Equal to Interest f	\$ \$ \$	2017 79,467,845 49,509,864 128,977,709	\$	79,559,157 55,560,180 135,119,337 3,804,853 3,804,853	79,513,501 52,535,022 132,048,523 4.79% 7.24%		60.215% 39.785% 100%
Capital Structure Debt Equity (Excludes GTCCs) Total Interest and Equity Computations Interest on LTD Using Interest Costs f Margins Would be Equal to Interest f a. Interest	\$ \$ \$	2017 79,467,845 49,509,864 128,977,709	\$	79,559,157 55,560,180 135,119,337 3,804,853 3,804,853	79,513,501 52,535,022 132,048,523 4.79% 7.24%		60.215% 39.785% 100% 2.881%
Capital Structure Debt Equity (Excludes GTCCs)	\$	2017 79,467,845 49,509,864 128,977,709	\$ \$	79,559,157 55,560,180 135,119,337 3,804,853 3,804,853	79,513,501 52,535,022 132,048,523 4.79% 7.24%		60.215% 39.785%

	Carrying Costs								
Туре		Holophane LED							
Watts Lumens		66 6,689							
Original Cost Times: Cost of Capital	(Sch. B, Page 1) (Note 1)	\$ 2,713.00 5.76%							
Annual Carrying Costs		\$ 156.34							
Note 1 Cost of Capital									
Patronage Capital, Cost o	Interest, See Calculation Sch. B pg. 2 Patronage Capital, Cost of Equity to Cost of Debt								
	to produce a 2.0 Operating TIER								
Total Cost of Capital		5.76%							

Installed Costs										
Туре		Holophane LED								
Watts Lumens		66 6,689								
Cost of fixture Accessories	(Schd. E Pg. 1)	\$ 1,097.65								
Photocontrol Pole and Base	(Schd. E Pg. 2) (Schd. E Pg. 3 & 4)	\$ 57.12 \$ 920.00								
Subtotal		\$ 2,074.77								
Taxes		\$ 124.49								
Total after Taxes		\$ 2,199.26								



1721 FORTUNE COURT

LEXINGTON

KY 40509

Quotation

UNLESS THERE ARE DIFFERENT OR ADDITIONAL TERMS AND CONDITIONS CONTAINED IN A MASTER AGREEMENT THAT MODIFY WESCO'S STANDARD TERMS, BUYER AGREES THAT THIS QUOTE AND ANY RESULTING PURCHASE ORDER WILL BE GOVERNED BY WESCO'S TERMS AND CONDITIONS AVAILABLE AT HTTP://WWW.WESCO.COM/TERMS_AND_CONDITIONS_OF_SALE.PDF, WHICH TERMS ARE INCORPORATED HEREIN BY REFERENCE AND MADE PART HEREOF. PLEASE CONTACT THE SELLER IDENTIFIED ON THIS QUOTE IF YOU REQUIRE A PRINTED COPY.

OWEN ELECTRIC COOP 8205 HIGHWAY 127 S 8205 HWY 127 N OWENTON KY 403599378

Branch:

Project Number: QUOTE

Date: 07/11/19

Project Name Quoted To:

Date of Your 07/11/19

When ordering please refer to Ouotation Number:

Item	Quantity	Catalog Number and Description	Unit Price	U/M	Total Price	Rate of Cash Discount	Shipping Time (Weeks)	Customer Delivery Date
	1	A-EL*PUCL2 P30 40K AS BK L3 B P3*EA*UTILITY POSTOP FCO LED (PUCL2): PUCL2, LED PERFORMANCE PACKAGE P	1097.650	Е	1097.65			
		SUB-TOTAL ESTIMATED TAX TOTAL						

F.O.B. Point of Shipment. The prices stated in this offer shall, unless renewed, automatically expire fifteen days (15) from the date of this offer. Prices quoted are subject to adjustment should Duty and Tariff rates change from time of bid/quotation to time of order. WESCO reserves the right to adjust its pricing for Goods affected directly or indirectly by changing duties/tariffs/trade agreements and significant currency fluctuations. Per:

BLANKET PURCHASE ORDER 2016-2018

Schedule E Page 2 of 4

2019 update

WESCO

OVERHEAD MATERIAL

	OEC ID#	QTY		Description of Material	Catalog #	Unit Price	SIM#
es	39102020	2000	ea.	LUMINAIRE, LED REMOTE PHOTO EYE	Aquity DCC127 1.5M50	\$ 57.12	88879130568
lari	80005003	200	ea.	LUMINAIRE LAMP 100W HPS	Phillips C100S54/ALTO		78667736872
Luminaries	39102015	1500	ea.	LUMINAIRE, LED OUTDOOR HEAD	CRTK-A-A08-E-120-5-10MSP-V-A- U78911		49102099969
Lu	39102018	500	ea.	LUMINAIRE, LED OUTDOOR PACKAGE	CRTK-A-A08-E-120-5-10MSP-B24-V- A-U78912	-	49102099968
	39102026		ea.	LUMINAIRE, LED COBRHEAD 100 EQ	NVN-AF-01EuT3-10K4AP	,-13	08008386417
	39102028		ea.	LUMINAIRE, LED COBRHEAD 250 EQ	NVN-AF-02EuT3-10K4AP		49102099965 .
	39102030		ea.	LUMINAIRE, LED COBRHEAD 400 EQ	NVN-AF-04EuT3-10K4AP	F	49102099964
aries	39102044		ea.	LUMINAIRE, LED DEC ACORN	GVD2P20 40KasMbk3NsBKh		78351949326
Luminaries	39102046		ea.	LUMINAIRE, LED DEC HOLOPHANE	PTUE2P2040KasGL3BKbP3	and.	78351949329
LED]	39102048		ea.	LUMINAIRE, LED DEC TRADITIONAIRE	UTR-080-LED-E-U-55-4	5	49102099953
	39102032		ea.	LUMINAIRE, LED DIRECTIONL 100 EQ	UFLDsC15eU66Tap410msp	-	49102099967
	39102033		ea.	LUMINAIRE, LED DIRECTIONL 250 EQ	UFLDC25eU66Tap410K	\$ =10310	08008386416
	39102034		ea.	LUMINAIRE, LED DIRECTIONL 400 EQ	UFLD-C40eU66Tap4-10K		49102099966

From: Sent:

Kent

@brownstown.com]

To:

Friday, September 20, 2019 2:32 PM

Subject: Attachments: Mike Hearne Hapco Poles 30393.pdf

Follow Up Flag: Flag Status:

Follow up Flagged

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email! ***

Hey Mike... The 4" pole and base much more reasonable. Please see pricing below and spec attached and let me know any others. Have a great weekend! Thanks

30393-003P** Hapco pole and base \$920.00/e

FREIGHT ALLOWED

14-16 WEEKS ARO

Kent

O# 502-859-5840

@brownstown.com

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