



Control Number: 44677



Item Number: 24

Addendum StartPage: 0

SOAH DOCKET NO. 473-15-3684  
PUC DOCKET NO. 44677

APPLICATION OF EL PASO ELECTRIC §  
COMPANY FOR APPROVAL TO REVISE § BEFORE THE STATE OFFICE  
ITS ENERGY EFFICIENCY COST § OF  
RECOVERY FACTOR AND REQUEST TO § ADMINISTRATIVE HEARINGS  
ESTABLISH REVISED COST CAP §

EL PASO ELECTRIC COMPANY'S RESPONSE TO  
CITY OF EL PASO'S FIRST REQUEST  
FOR INFORMATION  
QUESTION NOS. CEP 1-1 THROUGH CEP 1-4

JUNE 1, 2015

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SOAH DOCKET NO. 473-15-3684  
PUC DOCKET NO. 44677

APPLICATION OF EL PASO ELECTRIC	§	
COMPANY FOR APPROVAL TO REVISE	§	BEFORE THE STATE OFFICE
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CEP 1-1:

Please provide all workpapers and documents utilized in the load forecast for 2016 kWh, for Rate Class 08, including the detail for Rate Code TXRT08 and TXRT08A in Tab WP 2016 Forecast, Exhibit RFG-1 2016 EECRF Calculation. Workpaper RGE-1, page 8 of 12.

RESPONSE:

Please see the included spreadsheet providing all workpapers and documents utilized in the load forecast for 2016 kWh for Rate Class 08 beginning with the detail for Rate Code TXRT08 and TXRT08A as reflected in Tab WP 2016 Forecast of Exhibit RFG-1 2016 EECRF Calculation, Workpaper RGE-1, page 8 of 12.

Because El Paso Electric has an estimate of the remaining LED conversions, an estimated energy reduction is made to 2014 historical sales. This adjustment is an overall decrease for both 2015 and 2016. Subsequent year's growth is driven by the forecasted growth of the variable Total El Paso households, which serves as a proxy for street light energy growth.

Preparer: Teodulo Soto

Title: Staff Economist

Sponsor: Rene F. Gonzalez

Title: Staff Finance Analyst

Rate TXRT08 and TXRT08A as seen in MF 2016 Forecast

Rate Code	Rate No	Fun Type	Rate	Jan 2016	Feb 2016	Mar 2016	Apr 2016	May 2016	Jun 2016	Jul 2016	Aug 2016	Sep 2016	Oct 2016	Nov 2016	Dec 2016	Total
TXRT08	8	6	Street	1,250,215	1,058,087	1,073,186	1,062,031	1,056,152	1,069,142	1,033,984	1,055,228	1,015,544	1,136,948	1,202,080	1,254,290	12,584,801
TXRT08A	8	6	LED	585,618	505,547	516,120	457,799	435,291	401,875	427,565	450,178	479,708	536,761	558,482	600,038	5,906,142
																Total:
																18,590,943

Annual Historical and TX Street Lighting Forecast

Year	kWh	Growth
1995	32,363,817	
1996	33,329,869	3.0%
1997	41,519,428	24.5%
1998	35,077,264	-16.0%
1999	35,630,701	1.6%
2000	36,143,967	1.4%
2001	37,748,247	4.4%
2002	38,662,146	2.4%
2003	40,445,640	4.6%
2004	40,969,373	1.3%
2005	41,296,314	0.8%
2006	41,154,828	-0.3%
2007	42,875,983	4.2%
2008	44,171,318	3.0%
2009	41,320,080	-6.3%
2010	40,464,914	-2.1%
2011	37,277,128	-7.9%
2012	39,587,624	6.2%
2013	40,354,091	1.9%
2014	32,393,562	-18.2%
2015	25,561,923	-22.5%
2016	8,550,943	-27.4%
2017	8,821,390	3.2%
2018	19,139,852	118.0%
2019	19,433,151	1.5%
2020	19,786,464	1.8%
2021	20,117,645	1.7%
2022	20,433,344	1.6%
2023	20,756,890	1.6%
2024	21,046,920	1.4%
2025	21,286,818	1.2%
2026	21,562,044	1.3%
2027	21,859,713	1.4%
2028	22,111,696	1.2%
2029	22,381,942	1.2%
2030	22,643,750	1.2%
2031	22,808,243	0.7%
2032	23,155,614	1.5%
2033	23,413,465	1.1%
2034	23,677,253	1.1%

Completed and Expected LED Conversions and Expected Impacts

Lights Converted in 2014	7,000
Lights to be Converted in 2015	15,000
Lights to be Converted in 2016	10,000
...	...
Sales decrease in 2014	-2,561,559
Estimated decrease in 2015	-7,431,630
Estimated decrease in 2016	-7,010,980

2014 TX Street Lighting kWh Sales and Monthly Ratios

Month	2014 Monthly Sales	Ratio
Jan-14	3,700,652	0.99384916
Feb-14	3,157,300	0.84434747
Mar-14	3,201,568	0.83613575
Apr-14	2,861,969	0.75536797
May-14	2,701,948	0.72347402
Jun-14	2,562,003	0.68514948
Jul-14	2,684,044	0.71778521
Aug-14	2,849,017	0.75190476
Sep-14	3,014,994	0.8060233
Oct-14	3,373,111	0.90206118
Nov-14	3,549,497	0.94956523
Dec-14	3,737,792	0.99958674
2014 Total	37,393,373	

Note: 2014 value is based on per block energy. This value was later adjusted to +7,290,406 after the forecast was released.

Conversion to Monthly Forecast

Jan-15	1.1
Feb-15	1.158
Mar-15	1.89
Apr-15	1.956
May-15	1.817
Jun-15	1.1
Jul-15	1.15
Aug-15	1.148
Sep-15	1.15
Oct-15	1.15
Nov-15	1.15
Dec-15	1.15
Jan-16	1.15
Feb-16	1.15
Mar-16	1.158
Apr-16	1.15
May-16	1.15
Jun-16	1.15
Jul-16	1.15
Aug-16	1.15
Sep-16	1.15
Oct-16	1.15
Nov-16	1.15
Dec-16	1.15
Jan-17	1.15
Feb-17	1.158
Mar-17	1.15
Apr-17	1.15
May-17	1.15
Jun-17	1.15
Jul-17	1.15
Aug-17	1.15
Sep-17	1.15
Oct-17	1.15
Nov-17	1.15
Dec-17	1.15
Jan-18	1.15
Feb-18	1.15
Mar-18	1.158
Apr-18	1.15
May-18	1.15
Jun-18	1.15
Jul-18	1.15
Aug-18	1.15
Sep-18	1.15
Oct-18	1.15
Nov-18	1.15
Dec-18	1.15
Jan-19	1.15

Customers Forecast

2015	164
2016	164
2017	164
2018	164
2019	164
2020	164
2021	164
2022	164
2023	164
2024	164
2025	164
2026	164
2027	164
2028	164
2029	164
2030	164
2031	164
2032	164
2033	164
2034	164

EP Total Households

1995	197,10
1996	198,62
1997	201,61
1998	204,49
1999	208,79
2000	211,49
2001	214,66
2002	218,02
2003	222,21
2004	227,09
2005	231,73
2006	236,17
2007	240,97
2008	247,21
2009	252,75
2010	259,47
2011	266,07
2012	269,82
2013	268,32
2014	269,62
2015	270,92
2016	273,56
2017	277,58
2018	282,0
2019	286,88
2020	291,78
2021	296,67
2022	301,47
2023	306,09
2024	310,28
2025	314,06
2026	318,04
2027	322,06
2028	326,07
2029	330,06
2030	333,91
2031	337,6
2032	341,47
2033	345,27
2034	349,16

Formula Reference Data

Ratio	Hookup
Helper	Helper
Column	Column
Jan-15	0.0989649
Feb-15	0.0844747
Mar-15	0.0856186
Apr-15	0.076568
May-15	0.07275
Jun-15	0.0685149
Jul-15	0.0717785
Aug-15	0.0761904
Sep-15	0.0806023
Oct-15	0.0902061
Nov-15	0.0949565
Dec-15	0.0999587
Jan-16	0.0989649
Feb-16	0.0844747
Mar-16	0.0856186
Apr-16	0.0765568
May-16	0.0727574
Jun-16	0.0685149
Jul-16	0.0717785
Aug-16	0.0761904
Sep-16	0.0806023
Oct-16	0.0902061
Nov-16	0.0949565
Dec-16	0.0999587
Jan-17	0.0989649
Feb-17	0.0844747
Mar-17	0.0856186
Apr-17	0.0765368
May-17	0.0727574
Jun-17	0.0685149
Jul-17	0.0717785
Aug-17	0.0761904
Sep-17	0.0806023
Oct-17	0.0902061
Nov-17	0.0949565
Dec-17	0.0999587
Jan-18	0.0989649
Feb-18	0.0844747
Mar-18	0.0856186
Apr-18	0.0765368
May-18	0.0727574
Jun-18	0.0685149
Jul-18	0.0717785
Aug-18	0.0761904
Sep-18	0.0806023
Oct-18	0.0902061
Nov-18	0.0949565
Dec-18	0.0999587
Jan-19	0.0989649

Feb-9	0.43	Feb-19	0.0844347	25
Mar-19	0.06	Mar-19	0.0856186	25
Apr-9	48.9	Apr-19	0.0765768	25
May-19	0.06	May-19	0.0722574	25
Jun-19	0.06	Jun-19	0.0685149	25
Jul-19	0.06	Jul-19	0.0717785	25
Aug-19	48.9	Aug-19	0.0761904	25
Sep-19	0.06	Sep-19	0.0806023	25
Oct-19	0.06	Oct-19	0.0902061	25
Nov-19	0.06	Nov-19	0.0949365	25
Dec-19	0.06	Dec-19	0.0999587	25
Jan-20	0.06	Jan-20	0.0989649	26
Feb-20	0.06	Feb-20	0.0844347	26
Mar-20	0.06	Mar-20	0.0856186	26
Apr-20	0.06	Apr-20	0.0765768	26
May-20	0.06	May-20	0.0722574	26
Jun-20	0.06	Jun-20	0.0685149	26
Jul-20	0.06	Jul-20	0.0717785	26
Aug-20	0.06	Aug-20	0.0761904	26
Sep-20	0.06	Sep-20	0.0806023	26
Oct-20	0.06	Oct-20	0.0902061	26
Nov-20	0.06	Nov-20	0.0949365	26
Dec-20	0.06	Dec-20	0.0999587	26
Jan-21	0.06	Jan-21	0.0989649	27
Feb-21	0.06	Feb-21	0.0844347	27
Mar-21	0.06	Mar-21	0.0856186	27
Apr-21	0.06	Apr-21	0.0765768	27
May-21	0.06	May-21	0.0722574	27
Jun-21	0.06	Jun-21	0.0685149	27
Jul-21	0.06	Jul-21	0.0717785	27
Aug-21	0.06	Aug-21	0.0761904	27
Sep-21	0.06	Sep-21	0.0806023	27
Oct-21	0.06	Oct-21	0.0902061	27
Nov-21	0.06	Nov-21	0.0949365	27
Dec-21	0.06	Dec-21	0.0999587	27
Jan-22	0.06	Jan-22	0.0989649	28
Feb-22	0.06	Feb-22	0.0844347	28
Mar-22	0.06	Mar-22	0.0856186	28
Apr-22	0.06	Apr-22	0.0765768	28
May-22	0.06	May-22	0.0722574	28
Jun-22	0.06	Jun-22	0.0685149	28
Jul-22	0.06	Jul-22	0.0717785	28
Aug-22	0.06	Aug-22	0.0761904	28
Sep-22	0.06	Sep-22	0.0806023	28
Oct-22	0.06	Oct-22	0.0902061	28
Nov-22	0.06	Nov-22	0.0949365	28
Dec-22	0.06	Dec-22	0.0999587	28
Jan-23	0.06	Jan-23	0.0989649	29
Feb-23	0.06	Feb-23	0.0844347	29
Mar-23	0.06	Mar-23	0.0856186	29
Apr-23	0.06	Apr-23	0.0765768	29
May-23	0.06	May-23	0.0722574	29
Jun-23	0.06	Jun-23	0.0685149	29
Jul-23	0.06	Jul-23	0.0717785	29
Aug-23	0.06	Aug-23	0.0761904	29
Sep-23	0.06	Sep-23	0.0806023	29
Oct-23	0.06	Oct-23	0.0902061	29
Nov-23	0.06	Nov-23	0.0949365	29
Dec-23	0.06	Dec-23	0.0999587	29
Jan-24	0.06	Jan-24	0.0989649	30
Feb-24	0.06	Feb-24	0.0844347	30
Mar-24	0.06	Mar-24	0.0856186	30
Apr-24	0.06	Apr-24	0.0765768	30
May-24	0.06	May-24	0.0722574	30
Jun-24	0.06	Jun-24	0.0685149	30
Jul-24	0.06	Jul-24	0.0717785	30
Aug-24	0.06	Aug-24	0.0761904	30
Sep-24	0.06	Sep-24	0.0806023	30
Oct-24	0.06	Oct-24	0.0902061	30
Nov-24	0.06	Nov-24	0.0949365	30
Dec-24	0.06	Dec-24	0.0999587	30
Jan-25	0.06	Jan-25	0.0989649	31
Feb-25	0.06	Feb-25	0.0844347	31
Mar-25	0.06	Mar-25	0.0856186	31
Apr-25	0.06	Apr-25	0.0765768	31
May-25	0.06	May-25	0.0722574	31
Jun-25	0.06	Jun-25	0.0685149	31
Jul-25	0.06	Jul-25	0.0717785	31
Aug-25	0.06	Aug-25	0.0761904	31
Sep-25	0.06	Sep-25	0.0806023	31
Oct-25	0.06	Oct-25	0.0902061	31
Nov-25	0.06	Nov-25	0.0949365	31
Dec-25	0.06	Dec-25	0.0999587	31
Jan-26	0.06	Jan-26	0.0989649	32
Feb-26	0.06	Feb-26	0.0844347	32
Mar-26	0.06	Mar-26	0.0856186	32
Apr-26	0.06	Apr-26	0.0765768	32
May-26	0.06	May-26	0.0722574	32
Jun-26	0.06	Jun-26	0.0685149	32
Jul-26	0.06	Jul-26	0.0717785	32
Aug-26	0.06	Aug-26	0.0761904	32
Sep-26	0.06	Sep-26	0.0806023	32
Oct-26	0.06	Oct-26	0.0902061	32
Nov-26	0.06	Nov-26	0.0949365	32
Dec-26	0.06	Dec-26	0.0999587	32
Jan-27	0.06	Jan-27	0.0989649	33
Feb-27	0.06	Feb-27	0.0844347	33
Mar-27	0.06	Mar-27	0.0856186	33
Apr-27	0.06	Apr-27	0.0765768	33
May-27	0.06	May-27	0.0722574	33
Jun-27	0.06	Jun-27	0.0685149	33
Jul-27	0.06	Jul-27	0.0717785	33
Aug-27	0.06	Aug-27	0.0761904	33
Sep-27	0.06	Sep-27	0.0806023	33
Oct-27	0.06	Oct-27	0.0902061	33
Nov-27	0.06	Nov-27	0.0949365	33
Dec-27	0.06	Dec-27	0.0999587	33
Jan-28	0.06	Jan-28	0.0989649	34
Feb-28	0.06	Feb-28	0.0844347	34

Mar-28	5.0	Mar-28	0.0836186	34
Apr-28	5.33	Apr-28	0.0765368	34
May-28	5.45	May-28	0.0772574	34
Jun-28	5.54	Jun-28	0.085149	34
Jul-28	5.87	Jul-28	0.0717785	34
Aug-28	6.06	Aug-28	0.0761904	34
Sep-28	6.38	Sep-28	0.0806023	34
Oct-28	6.59	Oct-28	0.0902061	34
Nov-28	6.79	Nov-28	0.0949365	34
Dec-28	7.1	Dec-28	0.0999587	34
Jan-29	2.215	Jan-29	0.0989649	35
Feb-29	3.86	Feb-29	0.0844347	35
Mar-29	3.7	Mar-29	0.0856186	35
Apr-29	3.715	Apr-29	0.0765368	35
May-29	3.717	May-29	0.0722574	35
Jun-29	3.7	Jun-29	0.0685149	35
Jul-29	3.7	Jul-29	0.0717785	35
Aug-29	3.7	Aug-29	0.0761904	35
Sep-29	3.713	Sep-29	0.0806023	35
Oct-29	3.719	Oct-29	0.0902061	35
Nov-29	3.72	Nov-29	0.0949365	35
Dec-29	3.7	Dec-29	0.0999587	35
Jan-30	3.4	Jan-30	0.0989649	36
Feb-30	3.17	Feb-30	0.0844347	36
Mar-30	3.35	Mar-30	0.0856186	36
Apr-30	3.5	Apr-30	0.0765368	36
May-30	3.7	May-30	0.0722574	36
Jun-30	3.7	Jun-30	0.0685149	36
Jul-30	3.7	Jul-30	0.0717785	36
Aug-30	3.7	Aug-30	0.0761904	36
Sep-30	3.7	Sep-30	0.0806023	36
Oct-30	3.7	Oct-30	0.0902061	36
Nov-30	3.7	Nov-30	0.0949365	36
Dec-30	3.7	Dec-30	0.0999587	36
Jan-31	3.6	Jan-31	0.0989649	37
Feb-31	3.4	Feb-31	0.0844347	37
Mar-31	3.5	Mar-31	0.0856186	37
Apr-31	3.65	Apr-31	0.0765368	37
May-31	3.65	May-31	0.0722574	37
Jun-31	3.6	Jun-31	0.0685149	37
Jul-31	3.6	Jul-31	0.0717785	37
Aug-31	3.6	Aug-31	0.0761904	37
Sep-31	3.6	Sep-31	0.0806023	37
Oct-31	3.6	Oct-31	0.0902061	37
Nov-31	3.6	Nov-31	0.0949365	37
Dec-31	3.6	Dec-31	0.0999587	37
Jan-32	3.6	Jan-32	0.0989649	38
Feb-32	3.6	Feb-32	0.0844347	38
Mar-32	3.7	Mar-32	0.0856186	38
Apr-32	3.7	Apr-32	0.0765368	38
May-32	3.7	May-32	0.0722574	38
Jun-32	3.7	Jun-32	0.0685149	38
Jul-32	3.7	Jul-32	0.0717785	38
Aug-32	3.7	Aug-32	0.0761904	38
Sep-32	3.7	Sep-32	0.0806023	38
Oct-32	3.7	Oct-32	0.0902061	38
Nov-32	3.7	Nov-32	0.0949365	38
Dec-32	3.7	Dec-32	0.0999587	38
Jan-33	3.7	Jan-33	0.0989649	39
Feb-33	3.7	Feb-33	0.0844347	39
Mar-33	3.7	Mar-33	0.0856186	39
Apr-33	3.7	Apr-33	0.0765368	39
May-33	3.7	May-33	0.0722574	39
Jun-33	3.7	Jun-33	0.0685149	39
Jul-33	3.7	Jul-33	0.0717785	39
Aug-33	3.7	Aug-33	0.0761904	39
Sep-33	3.7	Sep-33	0.0806023	39
Oct-33	3.7	Oct-33	0.0902061	39
Nov-33	3.7	Nov-33	0.0949365	39
Dec-33	3.7	Dec-33	0.0999587	39
Jan-34	3.7	Jan-34	0.0989649	40
Feb-34	3.7	Feb-34	0.0844347	40
Mar-34	3.7	Mar-34	0.0856186	40
Apr-34	3.7	Apr-34	0.0765368	40
May-34	3.7	May-34	0.0722574	40
Jun-34	3.7	Jun-34	0.0685149	40
Jul-34	3.7	Jul-34	0.0717785	40
Aug-34	3.7	Aug-34	0.0761904	40
Sep-34	3.7	Sep-34	0.0806023	40
Oct-34	3.7	Oct-34	0.0902061	40
Nov-34	3.7	Nov-34	0.0949365	40
Dec-34	3.7	Dec-34	0.0999587	40

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CEP 1-2:

Please provide an explanation why the kWh for Rate 08 is projected to decline from 37,290,404 in 2014(WP RFG-1, pages 5 of 12 and 6 of 12 to WP RFG-1, page 7 of 12 and 8 of 12). Provide all calculations supporting your response.

RESPONSE:

The energy forecast for Rate 08 predicts a decline from 2014 levels because of the conversion from traditional street lights to new, more energy efficient LED lights that the City of El Paso has undertaken. As is shown in the response to CEP 1-1, approximately 20,600 street lights are expected to be converted within the next two years.

Please note that the actual annual historical kWh value for 2014 (32,993,562) listed within the data provided for CEP 1-1 differs from the figure noted within this question (37,290,404). This difference is accounted for by a post-forecast adjustment. This adjustment is also noted within the spreadsheet for CEP 1-1. Specifically, the adjustment is for the refund (and associated kWh) provided to the City of El Paso for installation of LED lights. The adjustment stems from the time difference between the change of old billing rates to new LED billing rates with associated lower consumption.

Preparer: Teodulo Soto

Title: Staff Economist

Sponsor: Rene F. Gonzalez

Title: Staff Finance Analyst

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CEP 1-3:

Please identify the 2014 program from which the incentives were paid to customers in Rate Class 08 Governmental Street Lighting.

RESPONSE:

The 2014 program from which the incentives were paid to customers in Rate Class 08 Governmental Street Lighting and Signal Service Rate is EPE's 2014 Commercial Standard Offer Program.

Preparer: Araceli G. Perea

Title: Principal Energy Efficiency Prog. Coord.

Sponsor: Susanne E. Stone

Title: Manager - Energy Efficiency



SOAH DOCKET NO. 473-15-3684  
PUC DOCKET NO. 44677

APPLICATION OF EL PASO ELECTRIC	§	
COMPANY FOR APPROVAL TO REVISE	§	BEFORE THE STATE OFFICE
ITS ENERGY EFFICIENCY COST	§	OF
RECOVERY FACTOR AND REQUEST TO	§	ADMINISTRATIVE HEARINGS
ESTABLISH REVISED COST CAP	§	

EL PASO ELECTRIC COMPANY'S RESPONSE TO  
CITY OF EL PASO'S FIRST REQUEST  
FOR INFORMATION  
QUESTION NOS. CEP 1-1 THROUGH CEP 1-4

CEP 1-4:

Please provide all calculations and workpapers for the reduction in demand claimed saved due to the incentives paid to governmental street lighting customers in 2014.

RESPONSE:

For all calculations and workpapers for the reduction in demand claimed saved due to the incentives paid to governmental street lighting and signal service rate customers in 2014, please see CEP 1-04 Confidential Attachment 1 and CEP 1-04 Attachment 2. Please note that the maximum project incentive is \$100,000 per year in the Commercial Standard Offer Program.

EPE's response to CEP 1-04 - Attachment 1 and CEP 1-04 Attachment 1 workpaper is confidential.

Confidential information is provided upon the signing of a confidentiality agreement.

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SOAH Docket No. 473-15-3684  
PUC Docket No. 44677  
CEP's 1st, Q. No. CEP 1-4  
Attachment 1  
Page 1 of 1

**CONFIDENTIAL**

**EPE'S RESPONSE TO CITY OF EL PASO'S 1-04 - ATTACHMENT 1 IS  
CONFIDENTIAL.**

**CONFIDENTIAL INFORMATION IS PROVIDED UPON THE SIGNING OF A  
CONFIDENTIALITY AGREEMENT.**

# **Public Utility Commission of Texas**

**Texas Technical Reference Manual**

**Version 1**

**Volume 3: Nonresidential Measures**

**Guide for PY2014 Implementation**

**Last Revision Date:  
December 13, 2013**



Table 2-2. Operating Hours and Coincidence Factors by Building Type<sup>13</sup>

Building Type Code	Building Type Description	Operating Hours	Summer Peak Coincidence Factor
Educ. K-12, No Summer	Education (K-12 w/o Summer Session)	2,777	47%
Education, Summer	Education: College, University, Vocational, Day Care, and K-12 w/ Summer Session	3,577	69%
Non-24 Hour Retail	Food Sales – Non-24 Hour Supermarket/Retail	4,706	95%
24-Hr Retail	24 Hour Supermarket/Retail	6,900	95%
Fast Food	Food Service – Fast Food	6,188	81%
Sit Down Rest.	Food Service – Sit-down Restaurant	4,368	81%
Health In	Health Care (In Patient)	5,730	78%
Health Out	Health Care (Out Patient)	3,386	77%
Lodging, Common	Lodging (Hotel/Motel/Dorm), Common Area	6,630	82%
Lodging, Rooms	Lodging (Hotel/Motel/Dorm), Rooms	3,055	25%
Manufacturing	Manufacturing	5,740	73%
MF Common	Multi-family Housing, Common Areas	4,772	87%
Nursing Home	Nursing and Residential Care	4,271	78%
Office	Office	3,737	77%
Outdoor	Outdoor Lighting Photo-Controlled	3,996	0% (Winter peak = 61% <sup>14</sup> )
Parking	Parking Structure	7,884	100%
Public Assembly	Public Assembly	2,638	56%
Public Order	Public Order and Safety	3,472	75%
Religious	Religious Worship	1,824	53%
Retail Non Mall/Strip	Retail (Excl. mall and strip center)	3,668	90%
Enclosed Mall	Retail (Enclosed Mall)	4,813	93%
Strip/Non Enclosed Mall	Retail (Strip Center and non-enclosed mall)	3,965	90%
Service (Non-Food)	Service (excl. food)	3,406	90%
Non Refrig. Warehouse	Warehouse (non-refrigerated)	3,501	77%
Refrig Warehouse	Warehouse (refrigerated)	3,798	84%

Note: These petition-approved values listed in this table come from PUCT Docket 39146. The exception to this is the Winter Peak factor of 61% for Outdoor Lighting (see Footnote 14). Slight variations to these are found in other calculators and program manuals. A set of comparisons of HOU and CF across utilities are found in Appendix C.

<sup>13</sup> Frontier Associates *Lighting Survey Form, Factor Tables* tab on the Texas Energy Efficiency website: [http://www.texasenergyefficiency.com/images/documents/lstf\\_2013\\_v8\\_01\\_250%20rows.xlsm](http://www.texasenergyefficiency.com/images/documents/lstf_2013_v8_01_250%20rows.xlsm).

<sup>14</sup> Outdoor lighting is the only nonresidential lighting measure for which a winter peak demand value has currently been developed and used in some utility calculators. There are currently two values used: Frontier uses 0.61 which was developed to represent a statewide average, and Oncor uses 0.64 which was developed to represent its service area.