



Public Utilities Commission

Application to Commit Energy Efficiency/Peak Demand Reduction Programs (Mercantile Customers Only)

Case No.: 13-0080-EL-EEC

Mercantile Customer: Summa Health System Hospitals

Electric Utility: Ohio Edison Company

Program Title or Description: Emergency Department Expansion/Remodel

Rule 4901:1-39-05(F), Ohio Administrative Code (O.A.C.), permits a mercantile customer to file, either individually or jointly with an electric utility, an application to commit the customer's existing demand reduction, demand response, and energy efficiency programs for integration with the electric utility's programs. The following application form is to be used by mercantile customers, either individually or jointly with their electric utility, to apply for commitment of such programs in accordance with the Commission's pilot program established in Case No. 10-834-EL-POR

Completed applications requesting the cash rebate reasonable arrangement option (Option 1) in lieu of an exemption from the electric utility's energy efficiency and demand reduction (EEDR) rider will be automatically approved on the sixty-first calendar day after filing, unless the Commission, or an attorney examiner, suspends or denies the application prior to that time. Completed applications requesting the exemption from the EEDR rider (Option 2) will also qualify for the 60-day automatic approval so long as the exemption period does not exceed 24 months. Rider exemptions for periods of more than 24 months will be reviewed by the Commission Staff and are only approved up to the issuance of a Commission order.

Complete a separate application for each customer program. Projects undertaken by a customer as a single program at a single location or at various locations within the same service territory should be submitted together as a single program filing, when possible. Check all boxes that are applicable to your program. For each box checked, be sure to complete all subparts of the question, and provide all requested additional information. Submittal of incomplete applications may result in a suspension of the automatic approval process or denial of the application.

Any confidential or trade secret information may be submitted to Staff on disc or via email at ee-pdr@puc.state.oh.us.

Section 1: Mercantile Customer Information

Name: Summa Health System Hospitals

Principal address: 525 East Market Street, Akron, OH 44304

Address of facility for which this energy efficiency program applies: same

Name and telephone number for responses to questions: Mark Barich, 330-375-7641

Electricity use by the customer (check the box(es) that apply):

- ☒ The customer uses more than seven hundred thousand kilowatt hours per year at the above facility. (Please attach documentation.)
- ☐ The customer is part of a national account involving multiple facilities in one or more states. (Please attach documentation.)

Section 2: Application Information

A) The customer is filing this application (choose which applies):

- ☐ Individually, without electric utility participation.
- ☒ Jointly with the electric utility.

B) The electric utility is: Ohio Edison Company

C) The customer is offering to commit (check any that apply):

- ☐ Energy savings from the customer's energy efficiency program. (Complete Sections 3, 5, 6, and 7.)
- ☐ Capacity savings from the customer's demand response/demand reduction program. (Complete Sections 4, 5, 6, and 7.)
- ☒ Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

Section 3: Energy Efficiency Programs

A) The customer's energy efficiency program involves (check those that apply):

☒ Early replacement of fully functioning equipment with new equipment. (Provide the date on which the customer replaced fully functioning equipment, and the date on which the customer would have replaced such equipment if it had not been replaced early. Please include a brief explanation for how the customer determined this future replacement date (or, if not known, please explain why this is not known)). **If Checked, Please see Exhibit 1 and Exhibit 2**

☐ Installation of new equipment to replace equipment that needed to be replaced. The customer installed new equipment on the following date(s):

☒ Installation of new equipment for new construction or facility expansion. The customer installed new equipment on the following date(s):

07/27/2012.

☐ Behavioral or operational improvement.

B) Energy savings achieved/to be achieved by the energy efficiency program:

- 1) If you checked the box indicating that the project involves the early replacement of fully functioning equipment replaced with new equipment, then calculate the annual savings [(kWh used by the original equipment) - (kWh used by new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 239,169 kWh

- 2) If you checked the box indicating that the customer installed new equipment to replace equipment that needed to be replaced, then calculate the annual savings [(kWh used by less efficient new equipment) - (kWh used by the higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: kWh

Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

- 3) If you checked the box indicating that the project involves equipment for new construction or facility expansion, then calculate the annual savings

[(kWh used by less efficient new equipment) - (kWh used by higher efficiency new equipment) = (kWh per year saved)]. Please attach your calculations and record the results below:

Annual savings: 199,021 kWh

Please describe the less efficient new equipment that was rejected in favor of the more efficient new equipment. **Please see Exhibit 1 if applicable**

- 4) If you checked the box indicating that the project involves behavioral or operational improvements, provide a description of how the annual savings were determined.

Section 4: Demand Reduction/Demand Response Programs

A) The customer's program involves (check the one that applies):

- ☒ Coincident peak-demand savings from the customer's energy efficiency program.
- ☐ Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
- ☐ Potential peak-demand reduction (check the one that applies):
 - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
 - ☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.

B) On what date did the customer initiate its demand reduction program?

See exhibit 2

C) What is the peak demand reduction achieved or capable of being achieved (show calculations through which this was determined):

45 kW

Section 5: Request for Cash Rebate Reasonable Arrangement (Option 1) or Exemption from Rider (Option 2)

Under this section, check the box that applies and fill in all blanks relating to that choice.

Note: If Option 2 is selected, the application will not qualify for the 60-day automatic approval. All applications, however, will be considered on a timely basis by the Commission.

A) The customer is applying for:

☒ Option 1: A cash rebate reasonable arrangement.

OR

☐ Option 2: An exemption from the energy efficiency cost recovery mechanism implemented by the electric utility.

OR

☐ Commitment payment

B) The value of the option that the customer is seeking is:

Option 1: A cash rebate reasonable arrangement, which is the lesser of (show both amounts):

☒ A cash rebate of \$15,956. (Rebate shall not exceed 50% project cost. Attach documentation showing the methodology used to determine the cash rebate value and calculations showing how this payment amount was determined.)

Option 2: An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider.

☐ An exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for _____ months (not to exceed 24 months). (Attach calculations showing how this time period was determined.)

OR

☐ A commitment payment valued at no more than \$_____. (Attach documentation and calculations showing how this payment amount was determined.)

OR

- ☐ Ongoing exemption from payment of the electric utility's energy efficiency/peak demand reduction rider for an initial period of 24 months because this program is part of the customer's ongoing efficiency program. (Attach documentation that establishes the ongoing nature of the program.) In order to continue the exemption beyond the initial 24 month period, the customer will need to provide a future application establishing additional energy savings and the continuance of the organization's energy efficiency program.)

Section 6: Cost Effectiveness

The program is cost effective because it has a benefit/cost ratio greater than 1 using the (choose which applies):

- ☐ Total Resource Cost (TRC) Test. The calculated TRC value is: _____(Continue to Subsection 1, then skip Subsection 2)
- ☒ Utility Cost Test (UCT) . The calculated UCT value is: **See Exhibit 3** (Skip to Subsection 2.)

Subsection 1: TRC Test Used (please fill in all blanks).

The TRC value of the program is calculated by dividing the value of our avoided supply costs (generation capacity, energy, and any transmission or distribution) by the sum of our program overhead and installation costs and any incremental measure costs paid by either the customer or the electric utility.

The electric utility's avoided supply costs were _____.

Our program costs were _____.

The incremental measure costs were _____.

Subsection 2: UCT Used (please fill in all blanks).

We calculated the UCT value of our program by dividing the value of our avoided supply costs (capacity and energy) by the costs to our electric utility (including administrative costs and incentives paid or rider exemption costs) to obtain our commitment.

Our avoided supply costs were **See Exhibit 3**

The utility's program costs were **See Exhibit 3**

The utility's incentive costs/rebate costs were **See Exhibit 3**

Section 7: Additional Information

Please attach the following supporting documentation to this application:

- Narrative description of the program including, but not limited to, make, model, and year of any installed and replaced equipment.
- A copy of the formal declaration or agreement that commits the program or measure to the electric utility, including:
 - 1) any confidentiality requirements associated with the agreement;
 - 2) a description of any consequences of noncompliance with the terms of the commitment;
 - 3) a description of coordination requirements between the customer and the electric utility with regard to peak demand reduction;
 - 4) permission by the customer to the electric utility and Commission staff and consultants to measure and verify energy savings and/or peak-demand reductions resulting from your program; and,
 - 5) a commitment by the customer to provide an annual report on your energy savings and electric utility peak-demand reductions achieved.
- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results. Additionally, identify and explain all deviations from any program measurement and verification guidelines that may be published by the Commission.



Public Utilities Commission

Application to Commit
Energy Efficiency/Peak Demand
Reduction Programs
(Mercantile Customers Only)

Case No.: 13-0080-EL-EEC

State of Ohio :

Robert Harrigan, Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

Summa Health System Hospitals

[insert customer or EDU company name and any applicable name(s) doing business as]

2. I have personally examined all the information contained in the foregoing application, including any exhibits and attachments. Based upon my examination and inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete.

Robert Harrigan, President/COO
Signature of Affiant & Title

Sworn and subscribed before me this 13th day of September, 2012 Month/Year

Diane Meredith
Signature of official administering oath

Diane Meredith
Print Name and Title

My commission expires on _____

Diane Meredith
Resident Summit County
Notary Public, State of Ohio
My Commission Expires: 11/12/2014

Customer Legal Entity Name: Summa Health/Akron City Hospital
Site Address: Summa Health/Akron City Hospital
Principal Address: 525 East Market Street

Project No.	Project Name	Narrative description of your program including, but not limited to, make, model, and year of any installed and replaced equipment:	Description of methodologies, protocols and practices used in measuring and verifying project results	What date would you have replaced your equipment if you had not replaced it early? Also, please explain briefly how you determined this future replacement date.	Please describe the less efficient new equipment that you rejected in favor of the more efficient new equipment.
1	Emergency Department Expansion/Renovation	The Emergency Department got a 65,500 square foot expansion and other areas were renovated.	See lighting calculator	This was both early replacement and new construction	N/A

Exhibit 2

Customer Legal Entity Name: Summa Health/Akron City Hospital

Site Address: Summa Health/Akron City Hospital

Principal Address: 525 East Market Street

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	47,895,905	47,895,905	47,895,905
2010	48,014,801	48,014,801	48,014,801
2009	46,220,477	46,220,477	46,220,477
Average	47,377,061	47,377,061	47,377,061

Project Number	Project Name	In-Service Date	Project Cost \$	50% of Project Cost \$	KWh Saved/Year (D) counting towards utility compliance	KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ <i>Note 2</i>	Commitment Payment \$
1	Emergency Department Expansion/Renovation	07/27/2012	\$23,192,722	\$11,596,361	438,190	438,190	45	\$21,275	\$15,956	
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
		Total	\$23,192,722		438,190	438,190	45	\$21,275	\$15,956	\$0

Docket No.

Site: 525 East Market Street

Notes

(1) Customer's usage is adjusted to account for the effects of the energy efficiency programs included in this application. When applicable, such adjustments are prorated to the in-service date to account for partial year savings.

(2) The eligible rebate amount is based upon 75% of the rebates offered by the FirstEnergy Commercial and Industrial Energy Efficiency programs or 75% of \$0.08/kWh for custom programs for all energy savings eligible for a cash rebate as defined in the PUCO order in Case NO.10-834-EL-EEC dated 9/15/2010, not to exceed the lesser of 50% of the project cost or \$250,000 per project. The rebate also cannot exceed \$500,000 per customer per year, per utility service territory.

Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh (A)	Utility Avoided Cost \$/MWh (B)	Utility Avoided Cost \$ (C)	Utility Cost \$ (D)	Cash Rebate \$ (E)	Administrator Variable Fee \$ (F)	Total Utility Cost \$ (G)	UCT (H)
1	438	\$ 308	\$ 135,085	\$ 4,050	\$15,956	\$4,382	\$ 24,388	5.5
Total	438	\$ 308	135,085	4,050	\$15,956	\$4,382	24,388	5.5

Notes

- (A) From Exhibit 2, = kWh saved / 1000
- (B) This value represents avoided energy costs (wholesale energy prices) from the Department of Energy, Energy Information Administration's 2009 Annual Energy Outlook (AEO) low oil prices case. The AEO represents a national average energy price, so for a better representation of the energy price that Ohio customers would see, a Cinergy Hub equivalent price was derived by applying a ratio based on three years of historic national average and Cinergy Hub prices. This value is consistent with avoided cost assumptions used in EE&PDR Program Portfolio and Initial Benchmark Report, filed Dec 15, 2009 (See Section 8.1, paragraph a).
- (C) = (A) * (B)
- (D) Represents the utility's costs incurred for self-directed mercantile applications for applications filed and applications in progress. Includes incremental costs of legal fees, fixed administrative expenses, etc.
- (E) This is the amount of the cash rebate paid to the customer for this project.
- (F) Based on approximate Administrator's variable compensation for purposes of calculating the UCT, actual compensation may be less.
- (G) = (D) + (E) + (F)
- (H) = (C) / (G)

Summa Health/Akron City Hospital ~ Summa Health/Akron City Hospital

Docket No. 

Site: 525 East Market Street

Lighting Inventory Form

Applicant Name:	Summa Health System
Facility Name:	Alston City Hospital
Date:	July 11, 2013
Lighting Zone (enter one):	Lighting Zone 2

Instructions: Please use one line for each fixture type in a room or area.

For existing or proposed control, choose OCC for Occupancy Sensor, DAY for photosensor, H-L for hi-level sensors or NONE for none. Controls in spaces where existing controls exist do not qualify.

The total of Column 5, the quantities of CFLs and exit signs in Column M, and the quantities of sensors in Column R, will be used to calculate your incentive on the NonStandard Lighting form.

[illegible]

[illegible]

Project Estimated Annual Savings Summary

Lighting

Estimated Annual kWh Savings	438,190
Total Change in Connected Load	44.67

Annual Estimated Cost Savings	\$43,819.00
Annual Operating Hours	8,760

Interior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$17,855.00
Exterior Lighting Incentive @ \$0.05/kWh (excluding retrofit CFLs, sensors, or LED exit signs)	\$0.00
Total retrofit CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard-wired CFL lamp (includes all retrofit CFLs, both interior and exterior)	\$3,420.00
Total retrofit LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/occupancy sensor and \$25/daylight sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$21,275.00
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Total Fixture Quantity excluding retrofit CFLs and LED Exit Signs	866
Total Lamp Quantity for retrofit Screw-In CFLs	0

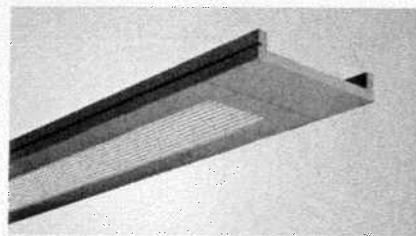
Total Lamp Quantity for retrofit Hard-Wired CFLs	228
Total Fixture Quantity for retrofit LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) and applicant equivalent full-load hours (EFLH) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	59.86
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LINEAR LIGHTING RESERVES THE RIGHT TO MAKE ANY MECHANICAL CHANGES TO THE FIXTURE WHICH DO NOT AFFECT THE OVERALL APPEARANCE OR PERFORMANCE.

PEERLESS®



Lightedge®

Indirect / Direct
Grateoptic T5 / T5HO

Type: AD

Project: AKRON
SUMMA
HEALTH

SPECIFICATIONS

Pendant Mount — Modular / 8" x 1 1/2" Rectangular

EGRM9

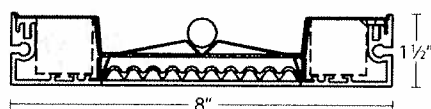
CATALOG NUMBER

EGRM9 2 54T5HO 28 FT R8 277 DMHL SCT LP841 F1 24 C100

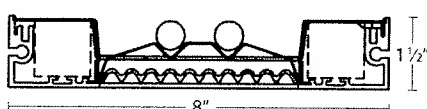
Examples: EGRM9 2 54T5HO 40FT R8 120 GEB10 2SE EL SCT LP835 F1/24 C100 — EGRM9 2 54T5HO 32FT R8 277 GEB10 DCT L/LP F2/15 C100 ACG

AVAILABLE FIXTURES

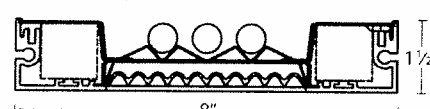
EGRM9 - 1



EGRM9 - 2



EGRM9 - 3



SPECIFICATIONS

Construction

Housing and endcap AA 6063 T6 extruded aluminum forming an 8 3/8" x 1 1/2" rectangular channel.

Reflectors

Die-formed reflectors with baked white enamel finish (nominal reflectance 90%) and specular aluminum side reflector.

Shielding

Crenellated GrateOptic® Diffuser.

Finish

Satin anodized standard; custom colors available.

Electrical

Specify 120 volt, 277 volt, or 347 volt. C-UL listed and labeled. For special circuiting, consult factory.

Fixture Length

4' and 8' lengths in a single section for exact suspension spacing of 4' and 8'. For total fixture length add 4" for each end-cap. Using internal joiners, 4' and 8' sections can be joined to form longer-length fixtures.

ORDERING LOGIC

Use guide below to order complete fixture runs from four feet to one-hundred feet in increments of four.

EGRM9	2	54T5HO	28 FT	R8	277	DMHL	
Fixture	# of Lamps in Cross Section	Lamp Type	Nominal Row Length¹	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules²
EGRM9	1 2 3	54T5HO 54W 4' T5HO 28T5 28W 4' T5		R4 4' section R8 8' section	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ ⁴ Advance Mark 10 dimming ECO10 ⁶ Lutron ECO-10 dimming OSDIM ⁴ Osram 0-10v dimming <i>Reference Ballast Chart on website or consult factory for other options.</i>	Blank 1SE 1 section 2SE 2 sections XSE X sections
							DMHL - Lutron Dimming Ballast
	SCT	LP841		F1 / 24	C100		
Emergency Type³	Switching	Lamp Color	Mounting Type	Overall Suspension	Finish	Options	
Blank EL Emergency Battery Pack Emergency Circuit EC EN Emergency Battery Pack w/ Night Light Circuit	SCT Single Circuit DCT Dual Circuit	L/LP No Lamp LP830 3000k 80+ CRI LP835 3500k 80+ CRI LP841 4100k 80+ CRI <i>Available with T5 only</i> LP830P 3000k 80+ CRI Premier Lamp LP835P 3500k 80+ CRI Premier Lamp LP841P 4100k 80+ CRI Premier Lamp <i>Reference Lamp Chart on website or consult factory for other options.</i>	F1 T-Bar Ceiling (Universal Mounting Bracket) F1A T-Bar Ceiling (UMB with Integrated J-Box) F2 Hard Ceiling Horizontal J-box F4A Grid Ceiling IDS 1/4" F4B Grid Ceiling IDS 1/2" F4C Grid Ceiling IDS Screw Slot	12 12" overall suspension 15 15" overall suspension 18 18" overall suspension 21 21" overall suspension 24 24" overall suspension XX XX" overall suspension	C100 Satin Anodized Finish (Standard) C099 Custom Color (consult factory) C200 Peerless Standard White (Low Gloss) C005 Soft White (Low Gloss) C032 White White (Gloss) C041 White White (Low Gloss)	ACG Adjustable Cable Grippers CP Chicago Plenum DL Damp Location Label DU Dust Cover GLR Fast Blow Fuse GMF Slow Blow Fuse ELH EM Through Wire Harness ELS EM Through Wire Harness With Single Feed APF Alternate Power Feed (F4X mounting only)	

Notes:

- Must be in 4' increments.
- Sections per run; optional.
- Optional: EL, EN and EC not available with DCT in 4' sections.

- Not available in 347 volt.
- Not available with 28T5 Lamp Type.
- Not available with 54T5HO Lamp Type.

PEERLESS LIGHTING • Box 2556, Berkeley, CA 94702-0556 • Tel: 510.845.2760 • Fax: 510.845.2776 • peerless-lighting.com

An Acuity Brands Company

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EGRM-11

Lightedge

Grateoptic T5 / T5HO

PHOTOMETRICS

Pendant Mount — Modular / 8" x 1 1/2" Rectangular

EGRM9

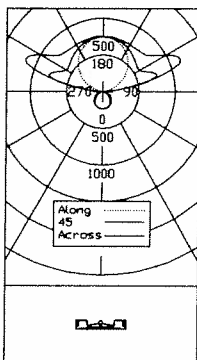
Type: AD

Project: AKRON SUMMA HEALTH

1-LAMP T5HO

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 6014 DATE: 8-26-2003

CATALOG NUMBER: EGRM9-1-54T5HO
LUMINAIRE: 8 1/8" W x 1 1/2" H ALUMINUM RECTANGULAR LIGHT WITH WHITE PAINTED AND SPECULAR REFLECTOR AND GRATEOPTIC
LAMP(S): 1-FP54/B35/HO RATED @ 5000 LUMENS
BALLAST: QT 1X54/120PHO
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 80.5 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION	0	0.0	22.5	45.0	67.5	90.0	FLUX
0	235	235	235	235	235	235	22
5	235	235	235	235	235	235	22
15	227	228	229	229	230	230	64
25	212	214	215	214	213	213	99
35	192	194	192	187	185	119	
45	163	164	158	147	144	120	
55	131	129	114	103	99	103	
65	83	88	69	56	58	71	
75	49	39	30	28	25	36	
85	7	8	7	7	7	8	
90	0	1	1	1	1	1	
95	9	144	186	168	168	164	
105	103	311	752	812	791	592	
115	234	339	850	1015	1134	864	
125	364	430	580	763	856	538	
135	480	526	618	710	750	477	
145	560	609	682	716	738	418	
155	638	675	705	731	740	325	
165	712	722	732	737	748	207	
175	739	746	749	752	753	71	
180	752	752	752	752	752		

LUMINANCE DATA IN FOOTLAMBERTS
ANGLE: AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 548. 522. 481.
50 540. 472. 409.
55 519. 385. 324.
60 435. 274. 229.
65 194. 194. 180.

TOTAL LUMINAIRE EFFICIENCY = 81.9 %
CIE TYPE = SEM-INDIRECT
APPROVED BY: [Signature]

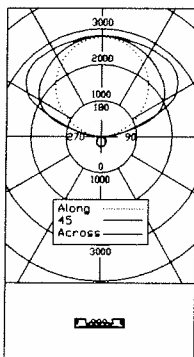
BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

NEAR-FIELD PHOTOMETRY AND CU TABLE AVAILABLE UPON REQUEST

3-LAMP T5HO

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 6010 DATE: 8-26-2003

CATALOG NUMBER: EGRM9-3-54T5HO
LUMINAIRE: 8 1/8" W x 1 1/2" H ALUMINUM RECTANGULAR LIGHT WITH WHITE PAINTED AND SPECULAR REFLECTOR AND GRATEOPTIC
LAMP(S): 3-FP54/B35/HO RATED @ 5000 LUMENS
BALLAST: QT 1X54/120PHO & QT 2X54/120PHO
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 180.5 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION	0	0.0	22.5	45.0	67.5	90.0	FLUX
0	273	273	273	273	273	273	26
5	271	271	275	272	271	271	26
15	263	265	265	265	268	275	75
25	245	248	249	249	247	247	114
35	219	224	220	216	214	136	
45	188	190	181	171	166	139	
55	147	150	133	119	114	119	
65	105	99	80	69	67	83	
75	56	48	37	33	31	42	
85	12	10	11	7	7	11	
90	5	5	5	5	5	5	
95	52	187	185	171	168	188	
105	480	933	1044	951	916	961	
115	882	1351	1845	2060	2067	1858	
125	1441	1690	2176	2514	2628	1881	
135	1850	2024	2362	2680	2804	1815	
145	2187	2312	2517	2714	2806	1578	
155	2459	2524	2648	2758	2794	1220	
165	2648	2685	2725	2782	2790	771	
175	2749	2772	2781	2789	2802	265	
180	2791	2791	2791	2791	2791		

LUMINANCE DATA IN FOOTLAMBERTS
ANGLE: AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 829. 805. 557.
50 806. 549. 471.
55 586. 448. 373.
60 500. 337. 285.
65 322. 290. 193.

TOTAL LUMINAIRE EFFICIENCY = 75.9 %
CIE TYPE = INDIRECT
APPROVED BY: [Signature]

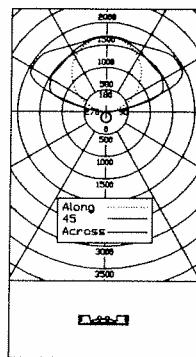
BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

NEAR-FIELD PHOTOMETRY AND CU TABLE AVAILABLE UPON REQUEST

2-LAMP T5HO

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 6016 DATE: 8-26-2003

CATALOG NUMBER: EGRM9-2-54T5HO
LUMINAIRE: 8 1/8" W x 1 1/2" H ALUMINUM RECTANGULAR LIGHT WITH WHITE PAINTED AND SPECULAR REFLECTOR AND GRATEOPTIC
LAMP(S): 2-FP54/B35/HO RATED @ 5000 LUMENS
BALLAST: QT 2X54/120PHO
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 120.7 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION	0	0.0	22.5	45.0	67.5	90.0	FLUX
0	235	235	235	235	235	235	22
5	234	235	236	236	235	235	22
15	228	229	229	229	230	230	64
25	210	213	215	214	213	213	98
35	188	192	191	187	186	119	
45	161	164	158	150	147	121	
55	129	129	116	105	101	104	
65	91	87	71	63	61	74	
75	48	42	33	29	28	37	
85	9	9	8	7	8	9	
90	1	2	1	1	1	1	
95	28	175	160	153	148	179	
105	263	707	1036	948	902	858	
115	581	850	1408	1777	1861	1291	
125	848	1002	1477	1828	1948	1277	
135	1101	1191	1462	1785	1886	1145	
145	1322	1367	1508	1668	1740	954	
155	1489	1510	1573	1648	1674	730	
165	1607	1616	1633	1647	1662	482	
175	1688	1674	1680	1686	1689	160	
180	1688	1688	1688	1688	1688		

LUMINANCE DATA IN FOOTLAMBERTS
ANGLE: AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 539. 527. 492.
50 531. 477. 418.
55 512. 399. 341.
60 440. 303. 256.
65 240. 226. 213.

TOTAL LUMINAIRE EFFICIENCY = 77.1 %
CIE TYPE = INDIRECT
APPROVED BY: [Signature]

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

NEAR-FIELD PHOTOMETRY AND CU TABLE AVAILABLE UPON REQUEST

Mercantile Customer Project Commitment Agreement
Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between Ohio Edison Company, its successors and assigns (hereinafter called the "Company") and Summa Health System Hospitals, Taxpayer ID No. 34-0714755 its permitted successors and assigns (hereinafter called the "Customer") (collectively the "Parties" or individually the "Party") and is effective on the date last executed by the Parties as indicated below.

WITNESSETH

WHEREAS, the Company is an electric distribution utility and electric light company, as both of these terms are defined in R.C. § 4928.01(A); and

WHEREAS, Customer is a mercantile customer, as that term is defined in R.C. § 4928.01(A)(19), doing business within the Company's certified service territory; and

WHEREAS, R.C. § 4928.66 (the "Statute") requires the Company to meet certain energy efficiency and peak demand reduction ("EE&PDR") benchmarks; and

WHEREAS, when complying with certain EE&PDR benchmarks the Company may include the effects of mercantile customer-sited EE&PDR projects; and

WHEREAS, Customer has certain customer-sited demand reduction, demand response, or energy efficiency project(s) as set forth in attached Exhibit 1 (the "Customer Energy Project(s)") that it desires to commit to the Company for integration into the Company's Energy Efficiency & Peak Demand Reduction Program Portfolio Plan ("Company Plan") that the Company will implement in order to comply with the Statute; and

WHEREAS, the Customer, pursuant to the Public Utilities Commission of Ohio's ("Commission") September 15, 2010 Order in Case No. 10-834-EL-EEC, desires to pursue a cash rebate of some of the costs pertaining to its Customer Energy Project(s) ("Cash Rebate") and is committing the Customer Energy Project(s) as a result of such incentive.

WHEREAS, Customer's decision to commit its Customer Energy Project(s) to the Company for inclusion in the Company Plan has been reasonably encouraged by the possibility of a Cash Rebate.

WHEREAS, in consideration of, and upon receipt of, said cash rebate, Customer will commit the Customer Energy Project(s) to the Company and will comply with all other terms and conditions set forth herein.

NOW THEREFORE, in consideration of the mutual promises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties, intending to be legally bound, do hereby agree as follows:

1. **Customer Energy Projects.** Customer hereby commits to the Company and Company accepts for integration into the Company Plan the Customer Energy Project(s) set forth on attached Exhibit 1. Said commitment shall be for the life of the Customer Energy Project(s). Company will incorporate said project(s) into the Company Plan to the extent that such projects qualify. In so committing, and as evidenced by the affidavit attached hereto as Exhibit A, Customer acknowledges that the information provided to the Company about the Customer Energy Project(s) is true and accurate to the best of its knowledge.

- a. By committing the Customer Energy Project(s) to the Company, Customer acknowledges and agrees that the Company shall control the use of the kWh and/or kW reductions resulting from said projects for purposes of complying with the Statute. By committing the Customer Energy Project(s), Customer further acknowledges and agrees that the Company shall take ownership of the energy efficiency capacity rights associated with said Project(s) and shall, at its sole discretion, aggregate said capacity into the PJM market through an auction. Any proceeds from any such bids accepted by PJM will be used to offset the costs charged to the Customer and other of the Company's customers for compliance with state mandated energy efficiency and/or peak demand requirements
 - b. The Company acknowledges that some of Customer's Energy Projects contemplated in this paragraph may have been performed under certain other federal and/or state programs in which certain parameters are required to be maintained in order to retain preferential financing or other government benefits (individually and collectively, as appropriate, "Benefits"). In the event that the use of any such project by the Company in any way affects such Benefits, and upon written request from the Customer, Company will release said Customer's Energy Project(s) to the extent necessary for Customer to meet the prerequisites for such Benefits. Customer acknowledges that such release (i) may affect Customer's cash rebate discussed in Article 3 below; and (ii) will not affect any of Customer's other requirements or obligations.
 - c. Any future Customer Energy Project(s) committed by Customer shall be subject to a separate application and, upon approval by the Commission, said projects shall become part of this Agreement.
 - d. Customer will provide Company or Company's agent(s) with reasonable assistance in the preparation of the Commission's standard joint application for approval of this Agreement ("Joint Application") that will be filed with the Commission, with such Joint Application being consistent with then current Commission requirements.
 - e. Upon written request and reasonable advance notice, Customer will grant employees or authorized agents of either the Company or the Commission reasonable, pre-arranged access to the Customer Energy Project(s) for purposes of measuring and verifying energy savings and/or peak demand reductions resulting from the Customer Energy Project(s). It is expressly agreed that consultants of either the Company or the Commission are their respective authorized agents.
2. **Joint Application to the Commission.** The Parties will submit the Joint Application using the Commission's standard "Application to Commit Energy Efficiency/Peak Demand Reduction Programs" ("Joint Application") in which they will seek the Commission's approval of (i) this Agreement; (ii) the commitment of the Customer Energy Project(s) for inclusion in the Company Plan; and (iii) the Customer's Cash Rebate.

The Joint Application shall include all information as set forth in the Commission's standard form which, includes without limitation:

- i. A narrative description of the Customer Energy Project(s), including but not limited to, make, model and year of any installed and/or replaced equipment;
- ii. A copy of this Agreement; and
- iii. A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.

3. **Customer Cash Rebate.** Upon Commission approval of the Joint Application, Customer shall provide Company with a W-9 tax form, which shall at a minimum include Customer's tax identification number. Within the greater of 90 days of the Commission's approval of the Joint Application or the completion of the Customer Energy Project, the Company will issue to the Customer the Cash Rebate in the amount set forth in the Commission's Finding and Order approving the Joint Application.
 - a. Customer acknowledges: i) that the Company will cap the Cash Rebate at the lesser of 50% of Customer Energy Project(s) costs or \$250,000; ii) the maximum rebate that the Customer may receive per year is \$500,000 per Taxpayer Identification Number per utility service territory; and iii) if the Customer Energy Project qualifies for a rebate program approved by the Commission and offered by the Company, Customer may still elect to file such project under the Company's mercantile customer self direct program, however the Cash Rebate that will be paid shall be discounted by 25%; and
 - b. Customer acknowledges that breaches of this Agreement, include, but are not limited to:
 - i. Customer's failure to comply with the terms and conditions set forth in the Agreement, or its equivalent, within a reasonable period of time after receipt of written notice of such non-compliance;
 - ii. Customer knowingly falsifying any documents provided to the Company or the Commission in connection with this Agreement or the Joint Application.
 - c. In the event of a breach of this Agreement by the Customer, Customer agrees and acknowledges that it will repay to the Company, within 90 days of receipt of written notice of said breach, the full amount of the Cash Rebate paid under this Agreement. This remedy is in addition to any and all other remedies available to the Company by law or equity.
4. **Termination of Agreement.** This Agreement shall automatically terminate:
 - a. If the Commission fails to approve the Joint Agreement;
 - b. Upon order of the Commission; or
 - c. At the end of the life of the last Customer Energy Project subject to this Agreement.

Customer shall also have an option to terminate this Agreement should the Commission not approve the Customer's Cash Rebate, provided that Customer provides the Company with written notice of such termination within ten days of either the Commission issuing a final appealable order or the Ohio Supreme Court issuing its opinion should the matter be appealed.

5. **Confidentiality.** Each Party shall hold in confidence and not release or disclose to any person any document or information furnished by the other Party in connection with this Agreement that is designated as confidential and proprietary ("Confidential Information"), unless: (i) compelled to disclose such document or information by judicial, regulatory or administrative process or other provisions of law; (ii) such document or information is generally available to the public; or (iii) such document or information was available to the receiving Party on a non-confidential basis at the time of disclosure.
 - a. Notwithstanding the above, a Party may disclose to its employees, directors, attorneys, consultants and agents all documents and information furnished by the other Party in connection with this Agreement, provided that such employees, directors, attorneys,

consultants and agents have been advised of the confidential nature of this information and through such disclosure are deemed to be bound by the terms set forth herein.

- b. A Party receiving such Confidential Information shall protect it with the same standard of care as its own confidential or proprietary information.
 - c. A Party receiving notice or otherwise concluding that Confidential Information furnished by the other Party in connection with this Agreement is being sought under any provision of law, to the extent it is permitted to do so under any applicable law, shall endeavor to: (i) promptly notify the other Party; and (ii) use reasonable efforts in cooperation with the other Party to seek confidential treatment of such Confidential Information, including without limitation, the filing of such information under a valid protective order.
 - d. By executing this Agreement, Customer hereby acknowledges and agrees that Company may disclose to the Commission or its Staff any and all Customer information, including Confidential Information, related to a Customer Energy Project, provided that Company uses reasonable efforts to seek confidential treatment of the same.
6. **Taxes.** Customer shall be responsible for all tax consequences (if any) arising from the payment of the Cash Rebate.
7. **Notices.** Unless otherwise stated herein, all notices, demands or requests required or permitted under this Agreement must be in writing and must be delivered or sent by overnight express mail, courier service, electronic mail or facsimile transmission addressed as follows:

If to the Company:

FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
Attn: Victoria Nofziger
Telephone: 330-384-4684
Fax: 330-761-4281
Email: ymnofziger@firstenergycorp.com

If to the Customer:

Summa Health System Hospitals
525 East Market Street
Akron, OH 44319
Attn: Mark Barich
Telephone: 330-375-7641
Fax:
Email: barichm@aummahealth.org

or to such other person at such other address as a Party may designate by like notice to the other Party. Notice received after the close of the business day will be deemed received on the next business day; provided that notice by facsimile transmission will be deemed to have been received by the recipient if the recipient confirms receipt telephonically or in writing.

8. **Authority to Act.** The Parties represent and warrant that they are represented by counsel in connection with this Agreement, have been fully advised in connection with the execution thereof, have taken all legal and corporate steps necessary to enter into this Agreement, and that the undersigned has the authority to enter into this Agreement, to bind the Parties to all provisions herein and to take the actions required to be performed in fulfillment of the undertakings contained herein.
9. **Non-Waiver.** The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.
10. **Entire Agreement.** This Agreement, along with related exhibits, and the Company's Rider DSE, or its equivalent, as amended from time to time by the Commission, contains the Parties' entire understanding with respect to the matters addressed herein and there are no verbal or collateral representations, undertakings, or agreements not expressly set forth herein. No change in, addition to, or waiver of the terms of this Agreement shall be binding upon any of the Parties unless the same is set forth in writing and signed by an authorized representative of each of the Parties. In the event of any conflict between Rider DSE or its equivalent and this document, the latter shall prevail.
11. **Assignment.** Customer may not assign any of its rights or obligations under this Agreement without obtaining the prior written consent of the Company, which consent will not be unreasonably withheld. No assignment of this Agreement will relieve the assigning Party of any of its obligations under this Agreement until such obligations have been assumed by the assignee and all necessary consents have been obtained.
12. **Severability.** If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.
13. **Governing Law.** This Agreement shall be governed by the laws and regulations of the State of Ohio, without regard to its conflict of law provisions.
14. **Execution and Counterparts.** This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized officers or representatives as of the day and year set forth below.

Ohio Edison Company

(Company)

By: Jah C. Long

Title: V.P. Of Energy Efficiency

Date: 10-2-12

Summa Health System Hospitals

(Customer)

By: Derek Hanna

Title: President

Date: 9/25/12

Affidavit of Summa Health System Hospitals – Exhibit A

STATE OF OHIO)
) SS:
COUNTY OF Summit)

I, Robert Harrigan, being first duly sworn in accordance with law, deposes and states as follows:

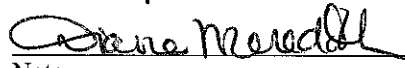
1. I am the President of Summa Health System ("Customer") As part of my duties, I oversee energy related matters at the Company.
2. The Customer has agreed to commit certain energy efficiency projects to Ohio Edison Company ("Utility"), which are the subject of the agreement to which this affidavit is attached ("Project(s)").
3. In exchange for making such a commitment, the Utility has agreed to provide Customer with Cash ("Incentive"). This Incentive was a critical factor in the Customer's decision to go forward with the Project(s) and to commit the Project(s) to the Utility.
4. All information related to said Project(s) that has been submitted to the Utility is true and accurate to the best of my knowledge.

FURTHER AFFIANT SAYETH NAUGHT.



Diane Meredith
Resident Summit County
Notary Public, State of Ohio
My Commission Expires: 12/12/2014

Sworn to before me and subscribed in my presence this 25 day of Sept, 2012


Notary

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

8/28/2013 2:03:08 PM

in

Case No(s). 13-0080-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of Ohio Edison Company and Summa Health System Hospitals electronically filed by Ms. Jennifer M. Sybyl on behalf of Ohio Edison Company and Summa Health System Hospitals