



Case No.: 13-0222-EL-EEC

Mercantile Customer: Walgreen Co.

Electric Utility: The Cleveland Electric Illuminating Company

Program Title or Description: Please see attached Exhibit A

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 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: Walgreen Co.

Principal address: 300 Wilmot Rd. MS#3301, Deerfield, IL 60015

Address of facility for which this energy efficiency program applies: See attached Exhibit A

Name and telephone number for responses to questions: Laura Hill 847-527-4729

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: The Cleveland Electric Illuminating 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): ____.
- ☐ 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: 763,309 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: _____ 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?

9/7/2012 - See Exhibit A

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

See Exhibit A - 90 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 \$45,801.00. (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.: 13-0222-EL-EEC

State of Ohio :

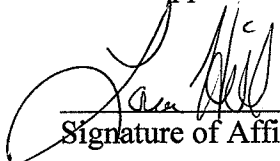
Laura Hill , Affiant, being duly sworn according to law, deposes and says that:

1. I am the duly authorized representative of:

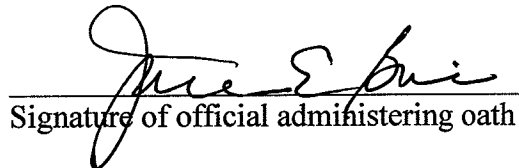
Walgreen Co.

[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.

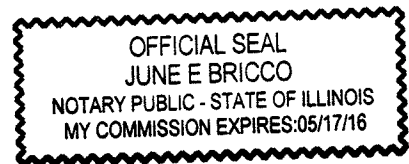
 Sr. Accountant - Credits & Incentives
Signature of Affiant & Title

Sworn and subscribed before me this 22ND day of January, 2013 Month/Year


Signature of official administering oath

June E Bracco Notary Public
Print Name and Title

My commission expires on 05/17/16



Walgreen Co - CEI- EXHIBIT A Docket #13-0222

Site Name	Early replacement of fully functioning equipment with new equipment	Installation of new equipment to replace failed equipment	Installation of new equipment for new construction or facility expansion	Behavioral modification or operational improvement	Site	Early Replacement kWh Saving/ Year	Installation of new equipment to replace failed equipment kWh Savings/Year	Behavioral Modification kWh Saving/ Year	In Service Date	Utility Peak Demand Reduction	Rebate Amount	Type	Utility Co.
Walgreens Store #1234	X				6 East Bagley Rd., Berea, OH 44017	51,463			9/12/2012	6	\$ 3,088.00	Refrigerated Case Retrofits	CEI
Walgreens Store #2132	X				6900 Rockside Rd., Independence, OH 44131	49,959			9/11/2012	6	\$ 2,998.00	Refrigerated Case Retrofits	CEI
Walgreens Store #2226	X				5090 Turney Rd., Garfield, OH 44125	49,959			9/11/2012	6	\$ 2,998.00	Refrigerated Case Retrofits	CEI
Walgreens Store #3256	X				11401 Union Ave., Cleveland, OH 44105	49,245			9/11/2012	6	\$ 2,955.00	Refrigerated Case Retrofits	CEI
Walgreens Store #3314	X				Pearl & Ridge Rd., Parma, OH 44129	52,680			9/11/2012	6	\$ 3,161.00	Refrigerated Case Retrofits	CEI
Walgreens Store #4159	X				6300 Pearl Rd., Parma Heights, OH 44130	49,172			9/12/2012	6	\$ 2,951.00	Refrigerated Case Retrofits	CEI
Walgreens Store #4317	X				9400 Mentor Rd., Mentor, OH 44060	51,198			9/10/2012	6	\$ 3,072.00	Refrigerated Case Retrofits	CEI
Walgreens Store #5030	X				6605 Mayfield Rd., Mayfield Heights, OH 44124	50,988			9/10/2012	6	\$ 3,059.00	Refrigerated Case Retrofits	CEI
Walgreens Store #5031	X				7260 Pearl Rd., Middleburg Heights, OH 44130	51,175			9/12/2012	6	\$ 3,071.00	Refrigerated Case Retrofits	CEI
Walgreens Store #5473	X				25524 Center Ridge Rd., Westlake, OH 44145	51,035			9/10/2012	6	\$ 3,062.00	Refrigerated Case Retrofits	CEI
Walgreens Store #5820	X				6101 Andrews Rd., Mentor on the Lake, OH 44060	51,198			9/10/2012	6	\$ 3,072.00	Refrigerated Case Retrofits	CEI
Walgreens Store #6588	X				32798 Walker Rd., Avon Lake, OH 44012	50,988			9/7/2012	6	\$ 3,059.00	Refrigerated Case Retrofits	CEI
Walgreens Store #6659	X				4065 Lee Rd, Cleveland, OH 44128	51,689			9/11/2012	6	\$ 3,101.00	Refrigerated Case Retrofits	CEI
Walgreens Store #9833	X				328 West Prospect Rd., Ashtabula, OH 44004	51,525			9/10/2012	6	\$ 3,092.00	Refrigerated Case Retrofits	CEI
Walgreens Store #10328	X				7888 York Rd., Parma, OH 44129	51,035			9/12/2012	6	\$ 3,062.00	Refrigerated Case Retrofits	CEI

Totals

763,309

90 \$ 45,801.00

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store #1234
Principal Address: 6 East Bagley Rd.

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 1234_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to quantify the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 1234_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 6 East Bagley Rd.

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store #1234
Principal Address: 6 East Bagley Rd.

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	355,520	355,520	355,520
Average	355,520	355,520	355,520

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	Refrigerated Case Retrofits	09/12/2012	\$10,129	\$5,065	51,463	51,463	6	\$4,117	\$3,088	
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
		Total	\$10,129		51,463	51,463	6	\$4,117	\$3,088	\$0

Docket No. 13-0222
Site: 6 East Bagley Rd.

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	51	\$ 308	\$ 15,865	\$ 4,050	\$3,088	\$515	\$ 7,652	2.1
Total	51	\$ 308	15,865	4,050	\$3,088	\$515	7,652	2.1

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)

Walgreen Co. ~ Walgreens Store #1234
Docket No. 13-0222

Site: 6 East Bagley Rd.



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #1234
Completed by (Name):	Anthony
Date completed:	9/12/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,462	4116.96
Total Project Energy Savings kWh	51,462	
Total Custom Prescriptive Rebate Amount \$	\$	4,116.96

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 1234_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store #2132
Principal Address: 6900 Rockside Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 2132_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 2132_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 6900 Rockside Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store #2132
Principal Address: 6900 Rockside Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	362,440	362,440	362,440
Average	362,440	362,440	362,440

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	Refrigerated Case Retrofits	09/11/2012	\$10,000	\$5,000	49,959	49,959	6	\$3,997	\$2,998	
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
					-	-	-			
		Total	\$10,000		49,959	49,959	6	\$3,997	\$2,998	\$0

Docket No. 13-0222
Site: 6900 Rockside Rd

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	50	\$ 308	\$ 15,401	\$ 4,050	\$2,998	\$500	\$ 7,547	2.0
Total	50	\$ 308	15,401	4,050	\$2,998	\$500	7,547	2.0

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)

Walgreen Co. ~ Walgreens Store #2132
Docket No. 13-0222

Site: 6900 Rockside Rd



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #2132
Completed by (Name):	Anthony
Date completed:	9/11/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	49,959	3996.72
Total Project Energy Savings kWh	49,959	
Total Custom Prescriptive Rebate Amount \$		\$ 3,996.72

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 2132_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 2226
Principal Address: 5090 Turney Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 2226_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 2226_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 5090 Turney Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 2226
Principal Address: 5090 Turney Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	296,760	296,760	296,760
Average	296,760	296,760	296,760

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	Refrigerated Case Retrofits	09/11/2012	\$10,000	\$5,000	49,959	49,959	6	\$3,997	\$2,998	
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Docket No. 13-0222
Site: 5090 Turney Rd

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	50	\$ 308	\$ 15,401	\$ 4,050	\$2,998	\$500	\$ 7,547	2.0
Total	50	\$ 308	15,401	4,050	\$2,998	\$500	7,547	2.0

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)

Walgreen Co. ~ Walgreens 2226
Docket No. 13-0222

Site: 5090 Turney Rd



Ohio Edison • The Illuminating Company • Toledo Edison

Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #2226
Completed by (Name):	Anthony
Date completed:	10/10/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	49,959	3996.72
Total Project Energy Savings kWh	49,959	
Total Custom Prescriptive Rebate Amount \$	\$	3,996.72

Notes about this rebate calculation:
<p>The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 2226_Refrigerated Cases Calculations.pdf".</p>

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 3256
Principal Address: 11401 Union Ave

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 3256_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 3256_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 11401 Union Ave

Exhibit 2

Customer Legal Entity Name: Walgreen Co.

Site Address: Walgreens 3256

Principal Address: 11401 Union Ave

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	364,160	364,160	364,160
Average	364,160	364,160	364,160

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) \$ <small>Note 2</small>	Commitment Payment \$
1	Refrigerated Case Retrofits	09/11/2012	\$10,170	\$5,085	49,245	49,245	6	\$3,940	\$2,955	
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Docket No. 13-0222

Site: 11401 Union Ave

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	49	\$ 308	\$ 15,181	\$ 4,050	\$2,955	\$492	\$ 7,497	2.0
Total	49	\$ 308	15,181	4,050	\$2,955	\$492	7,497	2.0

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)

Walgreen Co. ~ Walgreens 3256
Docket No. 13-0222

Site: 11401 Union Ave



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #3256
Completed by (Name):	Anthony
Date completed:	9/11/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	49,245	3939.60
Total Project Energy Savings kWh	49,245	
Total Custom Prescriptive Rebate Amount \$		\$ 3,939.60

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 3256_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 3314
Principal Address: Pearl & Ridge Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 3314_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 3314_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: Pearl & Ridge Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 3314
Principal Address: Pearl & Ridge Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	521,120	521,120	521,120
Average	521,120	521,120	521,120

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	Refrigerated Case Retrofits	09/11/2012	\$10,129	\$5,065	52,680	52,680	6	\$4,214	\$3,161	
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Docket No. 13-0222
Site: Pearl & Ridge Rd

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	53	\$ 308	\$ 16,240	\$ 4,050	\$3,161	\$527	\$ 7,737	2.1
Total	53	\$ 308	16,240	4,050	\$3,161	\$527	7,737	2.1

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)

Walgreen Co. ~ Walgreens 3314
Docket No. 13-0222

Site: Pearl & Ridge Rd



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #3314
Completed by (Name):	Anthony
Date completed:	9/11/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	52,679	4214.32
Total Project Energy Savings kWh	52,679	
Total Custom Prescriptive Rebate Amount \$		\$ 4,214.32

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 3314_Refrigerated Case Upgrade Calcs.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 4159
Principal Address: 6300 Pearl Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 4159_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 4159_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 6300 Pearl Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 4159
Principal Address: 6300 Pearl Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	424,640	424,640	424,640
Average	424,640	424,640	424,640

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) \$ <small>Note 2</small>	Commitment Payment \$
1	Refrigerated Case Retrofits	09/12/2012	\$10,129	\$5,065	49,172	49,172	6	\$3,934	\$2,951	
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		Total	\$10,129		49,172	49,172	6	\$3,934	\$2,951	\$0

Docket No. 13-0222
Site: 6300 Pearl Rd

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	49	\$ 308	\$ 15,159	\$ 4,050	\$2,951	\$492	\$ 7,492	2.0
Total	49	\$ 308	15,159	4,050	\$2,951	\$492	7,492	2.0

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)

Walgreen Co. ~ Walgreens 4159
Docket No. 13-0222

Site: 6300 Pearl Rd



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #4159
Completed by (Name):	Anthony
Date completed:	9/12/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	49,173	3933.84
Total Project Energy Savings kWh	49,173	
Total Custom Prescriptive Rebate Amount \$	\$	3,933.84

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 4159_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 4317
Principal Address: 9400 Mentor Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 4317_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 4317_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 9400 Mentor Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 4317
Principal Address: 9400 Mentor Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	339,840	339,840	339,840
Average	339,840	339,840	339,840

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	Refrigerated Case Retrofits	09/10/2012	\$10,129	\$5,065	51,198	51,198	6	\$4,096	\$3,072	
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Docket No. 13-0222
Site: 9400 Mentor Rd

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	51	\$ 308	\$ 15,783	\$ 4,050	\$3,072	\$512	\$ 7,634	2.1
Total	51	\$ 308	15,783	4,050	\$3,072	\$512	7,634	2.1

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)

Walgreen Co. ~ Walgreens Store # 4317
Docket No. 13-0222

Site: 9400 Mentor Rd



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #4317
Completed by (Name):	Anthony
Date completed:	9/10/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,198	4095.84
Total Project Energy Savings kWh	51,198	
Total Custom Prescriptive Rebate Amount \$	\$	4,095.84

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 4317_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 5030
Principal Address: 6605 Mayfield Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 5030_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 5030_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 6605 Mayfield Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 5030
Principal Address: 6605 Mayfield Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	404,640	404,640	404,640
Average	404,640	404,640	404,640

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) \$ <small>Note 2</small>	Commitment Payment \$
1	Refrigerated Case Retrofits	09/10/2012	\$10,129	\$5,065	50,988	50,988	6	\$4,079	\$3,059	
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Docket No. 13-0222
Site: 6605 Mayfield Rd

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	51	\$ 308	\$ 15,719	\$ 4,050	\$3,059	\$510	\$ 7,619	2.1
Total	51	\$ 308	15,719	4,050	\$3,059	\$510	7,619	2.1

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)

Walgreen Co. ~ Walgreens Store # 5030
Docket No. 13-0222

Site: 6605 Mayfield Rd



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #5030
Completed by (Name):	Anthony International
Date completed:	9/10/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	50,988	4079.04
Total Project Energy Savings kWh	50,988	
Total Custom Prescriptive Rebate Amount \$		\$ 4,079.04

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 5030_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 5031
Principal Address: 7260 Pearl Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 5031_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 5031_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 7260 Pearl Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens 5031
Principal Address: 7260 Pearl Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	436,880	436,880	436,880
Average	436,880	436,880	436,880

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) \$ <small>Note 2</small>	Commitment Payment \$
1	Refrigerated Case Retrofits	09/12/2012	\$10,129	\$5,065	51,175	51,175	6	\$4,094	\$3,071	
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Docket No. 13-0222
Site: 7260 Pearl Rd

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	51	\$ 308	\$ 15,776	\$ 4,050	\$3,071	\$512	\$ 7,632	2.1
Total	51	\$ 308	15,776	4,050	\$3,071	\$512	7,632	2.1

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)

Walgreen Co. ~ Walgreens 5031
Docket No. 13-0222

Site: 7260 Pearl Rd



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #5031
Completed by (Name):	Anthony International
Date completed:	9/12/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,175	4094.00
Total Project Energy Savings kWh	51,175	
Total Custom Prescriptive Rebate Amount \$	\$	4,094.00

Notes about this rebate calculation:
<p>The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 5031_Refrigerated Cases Calculations.pdf".</p>

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 5473
Principal Address: 25524 Center Ridge Rd.

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 5473_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 5473_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 25524 Center Ridge Rd.

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 5473
Principal Address: 25524 Center Ridge Rd.

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	323,520	323,520	323,520
Average	323,520	323,520	323,520

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) \$ <small>Note 2</small>	Commitment Payment \$
1	Refrigerated Case Retrofits	09/10/2012	\$10,129	\$5,065	51,035	51,035	6	\$4,083	\$3,062	
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Total			\$10,129		51,035	51,035	6	\$4,083	\$3,062	\$0

Docket No. 13-0222
Site: 25524 Center Ridge Rd.

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	51	\$ 308	\$ 15,733	\$ 4,050	\$3,062	\$510	\$ 7,623	2.1
Total	51	\$ 308	15,733	4,050	\$3,062	\$510	7,623	2.1

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)

Walgreen Co. ~ Walgreens Store # 5473
Docket No. 13-0222

Site: 25524 Center Ridge Rd.



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #5473
Completed by (Name):	Anthony International
Date completed:	9/10/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,035	4082.80
Total Project Energy Savings kWh	51,035	
Total Custom Prescriptive Rebate Amount \$		\$ 4,082.80

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 5473_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 5820
Principal Address: 6101 Andrews Rd.

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 5820_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 5820_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 6101 Andrews Rd.

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 5820
Principal Address: 6101 Andrews Rd.

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	385,920	385,920	385,920
Average	385,920	385,920	385,920

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	Refrigerated Case Retrofits	09/10/2012	\$10,129	\$5,065	51,198	51,198	6	\$4,096	\$3,072	
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		Total	\$10,129		51,198	51,198	6	\$4,096	\$3,072	\$0

Docket No. 13-0222
Site: 6101 Andrews Rd.

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	51	\$ 308	\$ 15,783	\$ 4,050	\$3,072	\$512	\$ 7,634	2.1
Total	51	\$ 308	15,783	4,050	\$3,072	\$512	7,634	2.1

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)

Walgreen Co. ~ Walgreens Store # 5820
Docket No. 13-0222

Site: 6101 Andrews Rd.



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #5820
Completed by (Name):	Anthony International
Date completed:	9/10/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,198	4095.84
Total Project Energy Savings kWh	51,198	
Total Custom Prescriptive Rebate Amount \$	\$	4,095.84

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 5820_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store #6588
Principal Address: 32798 Walker RD

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 6588_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 6588_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 32798 Walker RD

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store #6588
Principal Address: 32798 Walker RD

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	308,160	308,160	308,160
Average	308,160	308,160	308,160

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) \$ <small>Note 2</small>	Commitment Payment \$
1	Refrigerated Case Retrofits	09/07/2012	\$10,129	\$5,065	50,988	50,988	6	\$4,079	\$3,059	
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		Total	\$10,129		50,988	50,988	6	\$4,079	\$3,059	\$0

Docket No. 13-0222
Site: 32798 Walker RD

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	51	\$ 308	\$ 15,719	\$ 4,050	\$3,059	\$510	\$ 7,619	2.1
Total	51	\$ 308	15,719	4,050	\$3,059	\$510	7,619	2.1

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)

Walgreen Co. ~ Walgreens Store #6588
Docket No. 13-0222

Site: 32798 Walker RD



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #6588
Completed by (Name):	Anthony International
Date completed:	9/7/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	50,988	4079.04
Total Project Energy Savings kWh	50,988	
Total Custom Prescriptive Rebate Amount \$	\$	4,079.04

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 6588_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 6659
Principal Address: 4065 Lee Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 6659_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 6659_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 4065 Lee Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 6659
Principal Address: 4065 Lee Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	384,680	384,680	384,680
Average	384,680	384,680	384,680

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	Refrigerated Case Retrofits	09/11/2012	\$10,129	\$5,065	51,689	51,689	6	\$4,135	\$3,101	
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		Total	\$10,129		51,689	51,689	6	\$4,135	\$3,101	\$0

Docket No. 13-0222
Site: 4065 Lee Rd

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	52	\$ 308	\$ 15,935	\$ 4,050	\$3,101	\$517	\$ 7,668	2.1
Total	52	\$ 308	15,935	4,050	\$3,101	\$517	7,668	2.1

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)

Walgreen Co. ~ Walgreens Store # 6659
Docket No. 13-0222

Site: 4065 Lee Rd



Ohio Edison • The Illuminating Company • Toledo Edison

Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #6659
Completed by (Name):	Anthony International
Date completed:	10/10/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,688	4135.04
Total Project Energy Savings kWh	51,688	
Total Custom Prescriptive Rebate Amount \$	\$	4,135.04

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 6659_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 9833
Principal Address: 328 W. Prospect Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 9833_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 9833_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 328 W. Prospect Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 9833
Principal Address: 328 W. Prospect Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	357,600	357,600	357,600
Average	357,600	357,600	357,600

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	Refrigerated Case Retrofits	09/10/2012	\$10,129	\$5,065	51,525	51,525	6	\$4,122	\$3,092	
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Docket No. 13-0222
Site: 328 W. Prospect Rd

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	52	\$ 308	\$ 15,884	\$ 4,050	\$3,092	\$515	\$ 7,657	2.1
Total	52	\$ 308	15,884	4,050	\$3,092	\$515	7,657	2.1

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)

Walgreen Co. ~ Walgreens Store # 9833
Docket No. 13-0222

Site: 328 W. Prospect Rd



Ohio Edison • The Illuminating Company • Toledo Edison

Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #9833
Completed by (Name):	Anthony International
Date completed:	9/10/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,525	4122.00
Total Project Energy Savings kWh	51,525	
Total Custom Prescriptive Rebate Amount \$		\$ 4,122.00

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 9833_Refrigerated Cases Calculations.pdf".

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 10328
Principal Address: 7888 York Rd

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	Refrigerated Case Retrofits	The existing reach-in beverage and frozen food cases were retrofitted to conserve energy in the store; both cases have fluorescent T8 lighting and PSC fan motors. The beverage case has an open front with an air curtain, which maintains a barrier between the refrigerated air in the case and the ambient air in the store. The beverage and frozen food cases were upgraded with new LED lighting and high-efficiency electrically-commutated fan motors. The LED lighting uses less energy than the fluorescent lighting and provides higher light levels on the refrigerated product. The ECM fan motors use less energy than the PSC motors and still provide the required amount of air flow through the case. Doors were installed on the open beverage case to significantly reduce the heat loading on the refrigeration equipment.	Please see the attached calculations "WG 10328_Refrigerated Cases Calculations.pdf". An energy study was conducted on an open beverage case at the Lake Zurich Walgreens location. The purpose of the study was to determine the energy savings from installing doors on an open beverage case. The 20' beverage case in the study is representative of the beverage cases found in all corporate Walgreens locations. See the attached document "WG 10328_Lake Zurich Retrofit Report.pdf" which determines the energy saved from enclosing the open cases with doors.	2 to 3 years. The decision to retrofit the refrigerated cases was made to reduce energy use, increase light levels on the product, and to reduce maintenance costs.	N/A

Docket No. 13-0222
Site: 7888 York Rd

Exhibit 2

Customer Legal Entity Name: Walgreen Co.
Site Address: Walgreens Store # 10328
Principal Address: 7888 York Rd

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) <i>Note 1</i>
2011	355,800	355,800	355,800
Average	355,800	355,800	355,800

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) \$ <small>Note 2</small>	Commitment Payment \$
1	Refrigerated Case Retrofits	09/12/2012	\$10,129	\$5,065	51,035	51,035	6	\$4,083	\$3,062	
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Docket No. 13-0222
Site: 7888 York Rd

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	51	\$ 308	\$ 15,733	\$ 4,050	\$3,062	\$510	\$ 7,623	2.1
Total	51	\$ 308	15,733	4,050	\$3,062	\$510	7,623	2.1

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)

Walgreen Co. ~ Walgreens Store # 10328
Docket No. 13-0222

Site: 7888 York Rd



Ohio Edison • The Illuminating Company • Toledo Edison

Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Project 1 - Refrigerated Case Retrofits
Site Name:	Walgreens Store #10328
Completed by (Name):	Anthony International
Date completed:	9/12/2012

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
Refrigerated Case Retrofits	51,035	4082.80
Total Project Energy Savings kWh	51,035	
Total Custom Prescriptive Rebate Amount \$		\$ 4,082.80

Notes about this rebate calculation:

The existing refrigerated cases were retrofitted to reduce energy use in the store. The beverage cases were upgraded with LED lighting, ECM fans, and were closed in with new doors. The frozen food cases were upgraded with new solid state LED lighting. Please see the attached energy calculations "WG 10328_Refrigerated Cases Calculations.pdf".

67562 - GE254MVPS-A

UltraStart® T5 Watt-Miser

- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- UltraCool™ Operation 90C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20F Minimum Starting Temperature
- High Efficiency T5 ballast with Continuous Cathode Cutout Technology

GENERAL CHARACTERISTICS

Application	2 or 1 - F54T5HO
Category	Linear Fluorescent
Ballast Type	Electronic - Program / Rapid Start
Starting Method	Programmed Rapid Start
Lamp Wiring	Parallel
Ambient Temperature (MIN)	-20.0 °F
Ambient Temperature (MAX)	131.0 °F (55 °C)
Case Temperature (MAX)	194.0 °F
Ballast Factor	Normal-High (1.0)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal Can
Additional Info	Parallel Lamp Operation / Auto reset after lamp replacement / Program (Rapid) start / Active Power Factor Correction / End of Lamp Life Shutdown Circuitry

PRODUCT INFORMATION

Product Code	67562
Description	GE254MVPS-A
Standard Package	Standard Case
Standard Package GTIN	10043168675625
Standard Package Quantity	10
Sales Unit	Standard Case
No Of Items Per Sales Unit	10
No Of Items Per Standard Package	10
UPC	043168675628

DIMENSIONS

Case dimensions			
Length (L)		9.5	in(241.30 mm)
Width (W)		1.7	in(43.18 mm)
Height (H)		1.2	in(30.48 mm)
Mounting dimensions			
Bracket Length (BL)		NaN	in(NaN mm)
Mount Length (M)		8.9	in(226.06 mm)
Mount Width (X or F)		NaN	in(NaN mm)
Mount Slots (MS)		NaN	in(NaN mm)
Weight		1.5	lb
Exit Type		Side	
Remote Mounting Distance		12.0	ft
Remote Mounting Wire Gauge		18.0	AWG
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left/Right	25 (635 mm)
Green	1	Left/Right	3.5 (89 mm)
White	1	Left/Right	25 (635 mm)
Yellow	1	Left/Right	45 (1143 mm)
Blue	2	Left/Right	34 (864 mm)
Red	2	Left/Right	34 (864 mm)
Yellow	2	Left/Right	45 (1143 mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50.0 Hz / 60.0 Hz
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SAFETY & PERFORMANCE

- Meets ANSI Standard C82.11-Cons 2002
- Meets ANSI Standard C62.41-1991
- No PCB's
- UL Listed
- UL Class P
- UL Type 1 Outdoor
- UL Type CC
- RoHs Compliant
- CSA

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)	Crest Factor (<=)	THD% (<=)	Min. Starting Temp (°F/ °C)
FT55W/4P	1	277	60	0.23 A	1.03	1.72	96.5	1.4	0.08	0.0 °F / NaN
FT55W/4P	2	277	112	0.41 A	0.86	0.77	98.8	1.4	0.054	0.0 °F / NaN
FT55W/4P	1	120	61	0.51 A	1.03	1.69	99.7	1.4	0.068	0.0 °F / NaN

FT55W/4P	2	120	116	0.97 A	0.86	0.74	99.9	1.4	0.049	0.0 °F / NaN
FT50W/4P	2	120	118	1.0 A	1.05	0.89	99.9	1.4	0.046	0.0 °F / NaN
FT50W/4P	1	120	64	0.53 A	1.18	1.84	99.8	1.4	0.066	0.0 °F / NaN
FT50W/4P	1	277	63	0.24 A	1.18	1.87	96.7	1.4	0.074	0.0 °F / NaN
FT50W/4P	2	277	116	0.43 A	1.06	0.91	98.9	1.4	0.052	0.0 °F / NaN
F58T8	2	120	110	0.9 A	0.95	0.86	99.9	1.4	0.047	-20.0 °F / NaN
F58T8	1	120	59	0.49 A	1.08	1.83	99.7	1.4	0.066	-20.0 °F / NaN
F58T8	2	277	107	0.39 A	0.95	0.89	98.7	1.4	0.054	-20.0 °F / NaN
F58T8	1	277	59	0.22 A	1.08	1.83	96.39999999999999	1.4	0.073	-20.0 °F / NaN
F54T5/47W	1	120	58	0.48 A	1.00	1.72	99.7	1.4	0.069	
F54T5/47W	1	277	57	0.22 A	1.10	1.93	96.2	1.4	0.08	
F54T5/47W	2	120	105	0.88 A	1.00	0.95	99.9	1.4	0.048	
F54T5/47W	2	277	104	0.4 A	1.10	1.06	98.7	1.4	0.053	
			109	0.9 A	1.00	0.92	99.9	1.4	0.046	0.0 °F / NaN
			60	0.22 A	1.12	1.87	96.5	1.4	0.077	
			61	0.51 A	1.00	1.64	99.7	1.4	0.067	
			114	0.41 A	1.10	0.96	98.8	1.4	0.054	-20.0 °F / NaN
			107	0.4 A	1.12	1.05	98.7	1.4	0.052	0.0 °F / NaN
			117	0.98 A	1.00	0.85	99.91	1.4	0.044	-20.0 °F / NaN
			62	0.23 A	1.10	1.77	96.7	1.4	0.0662	-20.0 °F / NaN
			63	0.53 A	1.00	1.59	99.8	1.4	0.064	-20.0 °F / NaN

CAUTIONS & WARNINGS

Caution

- Risk of Electric Shock
 - Properly ground ballast and fixture.
 - Turn power off before servicing--see instructions.

NOTES

- FOR ONE LAMP OPERATION CONNECT LAMP TO RED AND YELLOW TERMINALS

WARRANTY INFORMATION

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.



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Lamp type	Linear Fluorescent - Straight Linear
Bulb	T8
Base	Medium Bi-Pin (G13)
Wattage	58
Rated Life	20000 hrs
Bulb Material	Soda lime

PHOTOMETRIC CHARACTERISTICS

Initial Lumens	5200
Mean Lumens	4940
Nominal Initial Lumens per Watt	89
Color Temperature	4000 K
Color Rendering Index (CRI)	85

ELECTRICAL CHARACTERISTICS

Lamp Current	0.700 A
--------------	---------

DIMENSIONS

Nominal Length	60
Bulb Diameter (DIA)	1
Max Base Face to Base Face (A)	1500

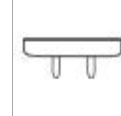
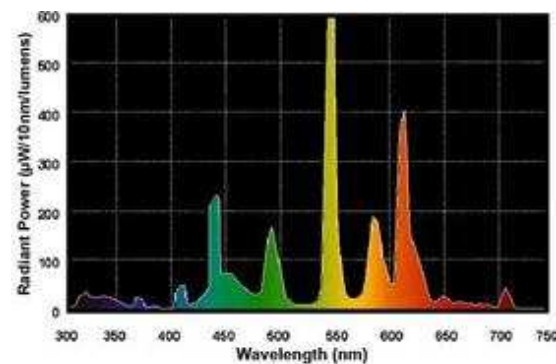
PRODUCT INFORMATION

Product Code	40081
Description	F58T8/841PLYLXLR
Standard Package	Case
Standard Package GTIN	10043168400814
Standard Package Quantity	25
Sales Unit	Unit
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	25
UPC	043168400817

COMPATIBLE GE BALLASTS

Product Code	Description	# of Bulbs	Power Factor	Ballast Factor
99651	GE254MVPS90-F	2	0.99	1.09

Base

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FASCO

FASCO INDUSTRIES, INC.
MOTOR DIVISION
OZARK PLANT



1837-19



NO 7140-1695 TYPE U90B1 PH 1
208-230 V- 50/60 Hz .51/44 A
1550 RPM 2 MFD 370 VAC CAP
THERMALLY PROTECTED CLASS B
PERMANENTLY LUBRICATED AO
P/N 25302501 00300

106.1 watts per motor at 208V.

67562 - GE254MVPS-A

UltraStart® T5 Watt-Miser

- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- UltraCool™ Operation 90C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20F Minimum Starting Temperature
- High Efficiency T5 ballast with Continuous Cathode Cutout Technology

GENERAL CHARACTERISTICS

Application	2 or 1 - F54T5HO
Category	Linear Fluorescent
Ballast Type	Electronic - Program / Rapid Start
Starting Method	Programmed Rapid Start
Lamp Wiring	Parallel
Ambient Temperature (MIN)	-20.0 °F
Ambient Temperature (MAX)	131.0 °F (55 °C)
Case Temperature (MAX)	194.0 °F
Ballast Factor	Normal-High (1.0)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal Can
Additional Info	Parallel Lamp Operation / Auto reset after lamp replacement / Program (Rapid) start / Active Power Factor Correction / End of Lamp Life Shutdown Circuitry

PRODUCT INFORMATION

Product Code	67562
Description	GE254MVPS-A
Standard Package	Standard Case
Standard Package GTIN	10043168675625
Standard Package Quantity	10
Sales Unit	Standard Case
No Of Items Per Sales Unit	10
No Of Items Per Standard Package	10
UPC	043168675628

DIMENSIONS

Case dimensions			
Length (L)		9.5	in(241.30 mm)
Width (W)		1.7	in(43.18 mm)
Height (H)		1.2	in(30.48 mm)
Mounting dimensions			
Bracket Length (BL)		NaN	in(NaN mm)
Mount Length (M)		8.9	in(226.06 mm)
Mount Width (X or F)		NaN	in(NaN mm)
Mount Slots (MS)		NaN	in(NaN mm)
Weight		1.5	lb
Exit Type		Side	
Remote Mounting Distance		12.0	ft
Remote Mounting Wire Gauge		18.0	AWG
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left/Right	25 (635 mm)
Green	1	Left/Right	3.5 (89 mm)
White	1	Left/Right	25 (635 mm)
Yellow	1	Left/Right	45 (1143 mm)
Blue	2	Left/Right	34 (864 mm)
Red	2	Left/Right	34 (864 mm)
Yellow	2	Left/Right	45 (1143 mm)

ELECTRICAL CHARACTERISTICS

Supply Current Frequency	50.0 Hz / 60.0 Hz
--------------------------	-------------------

SAFETY & PERFORMANCE

- Meets ANSI Standard C82.11-Cons 2002
- Meets ANSI Standard C62.41-1991
- No PCB's
- UL Listed
- UL Class P
- UL Type 1 Outdoor
- UL Type CC
- RoHs Compliant
- CSA

SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)	Crest Factor (<=)	THD% (<=)	Min. Starting Temp (°F/ °C)
FT55W/4P	1	277	60	0.23 A	1.03	1.72	96.5	1.4	0.08	0.0 °F / NaN
FT55W/4P	2	277	112	0.41 A	0.86	0.77	98.8	1.4	0.054	0.0 °F / NaN
FT55W/4P	1	120	61	0.51 A	1.03	1.69	99.7	1.4	0.068	0.0 °F / NaN

FT55W/4P	2	120	116	0.97 A	0.86	0.74	99.9	1.4	0.049	0.0 °F / NaN
FT50W/4P	2	120	118	1.0 A	1.05	0.89	99.9	1.4	0.046	0.0 °F / NaN
FT50W/4P	1	120	64	0.53 A	1.18	1.84	99.8	1.4	0.066	0.0 °F / NaN
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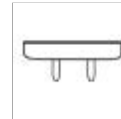


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Lamp type	Linear Fluorescent - Straight Linear
Bulb	T8
Base	Medium Bi-Pin (G13)
Wattage	58
Rated Life	20000 hrs
Bulb Material	Soda lime

Base

[View Larger](#)**PHOTOMETRIC CHARACTERISTICS**

Initial Lumens	5200
Mean Lumens	4940
Nominal Initial Lumens per Watt	89
Color Temperature	4000 K
Color Rendering Index (CRI)	85

ELECTRICAL CHARACTERISTICS

Lamp Current	0.700 A
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DIMENSIONS

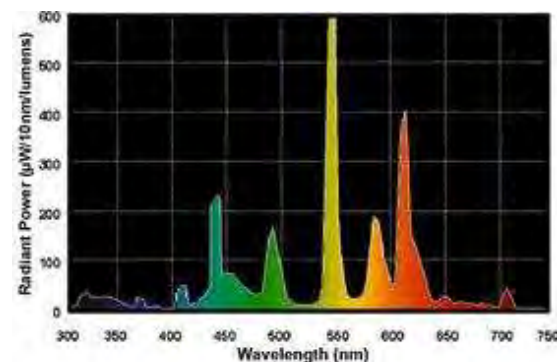
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Bulb Diameter (DIA)	1
Max Base Face to Base Face (A)	1500

PRODUCT INFORMATION

Product Code	40081
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ADDITIONAL RESOURCES[Catalogs](#)[Testimonials](#)[Disposal Policies & Recycling Information](#)**GRAPHS & CHARTS****Spectral Power Distribution**

Optimax Pro LED

The Professional Choice for LED Illumination



Highly uniform illumination
with patent-pending
coined optic

Improved color rendering index
(CRI), 85 typical

Up to 75% energy savings vs.
fluorescent

50,000 hour, 5-year warranty

Perfect for retrofits

Meets ASHRAE/IESNA
Standard 90.1 for Energy
Conservation

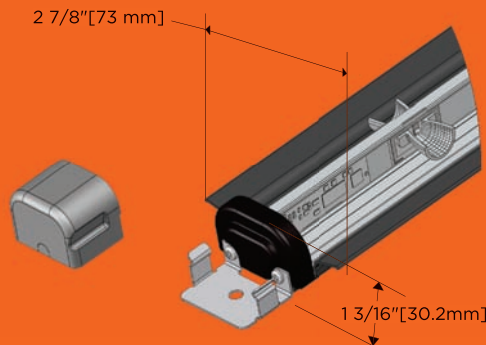


Optimax PRO LED

Light Fixture Specifications

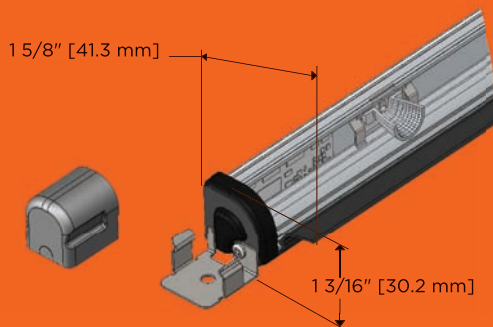
Required Driver for Fixtures	48" Low Power	48" High Power	60" Low Power	60" High Power	72" Low Power	72" High Power
Part No. (UL approved) (UL/CE approved)	60-18557-0001 60-18557-0002	60-17544-0001	60-18557-0001 60-18557-0002	60-17544-0001	60-18557-0001 60-18557-0002	60-17544-0001
Voltage, Input (VAC)	120-240, 60 Hz	120, 50/60 Hz	120-240, 60 Hz	120, 60 Hz	120-240, 50/60 Hz	120, 60 Hz
Power, Max Output (w)	55	75	55	75	55	75

Center Fixtures



Nominal size	48" Low Power	48" High Power	60" Low Power	60" High Power	72" Low Power	72" High Power
Part Number 4000K	60-18184-0003	60-18184-0003	60-18184-0001	60-18184-0001	60-18184-0102	60-18184-0102
Length (in/mm) "X"	45 3/16 (1223)	45 3/16 (1223)	61 3/16 (1554)	61 3/16 (1554)	68 3/16 (1732)	68 3/16 (1732)
Luminous flux (lumens)	670	895	930	1265	930	1265
Illuminance (lux)	825	1100	825	1100	825	1100
Power (w)	15	22	19	28	19	28

End Fixtures



Nominal size	48" Low Power	48" High Power	60" Low Power	60" High Power	72" Low Power	72" High Power
Part Number 4000K L 4000K R	60-18185-0003 60-18185-1003	60-18185-0003 60-18185-1003	60-18185-0001 60-18185-1001	60-18185-0001 60-18185-1001	60-18185-0102 60-18185-1102	60-18185-0102 60-18185-1102
Length (in/mm) "X"	45 3/16 (1223)	45 3/16 (1223)	61 3/16 (1554)	61 3/16 (1554)	68 3/16 (1732)	68 3/16 (1732)
Luminous flux (lumens)	370	480	460	605	460	605
Illuminance (lux)	825	1100	825	1100	825	1100
Power (w)	8	11	10	14	10	14

Illuminance (lux) +/-15%. Information provided is subject to change without notice.
All values are design or typical values when measured under laboratory or store conditions.



Optimax Pro LED

The Professional Choice for LED Illumination



Highly uniform illumination
with patent-pending
coined optic

Improved color rendering index
(CRI), 85 typical

Up to 75% energy savings vs.
fluorescent

50,000 hour, 5-year warranty

Perfect for retrofits

Meets ASHRAE/IESNA
Standard 90.1 for Energy
Conservation

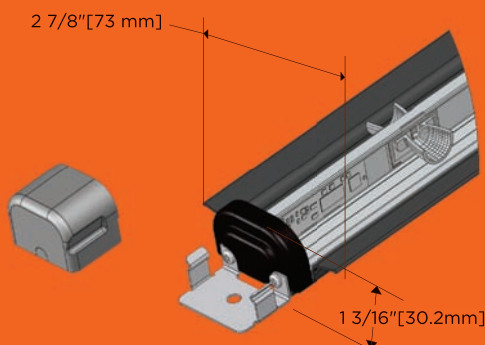


Optimax PRO LED

Light Fixture Specifications

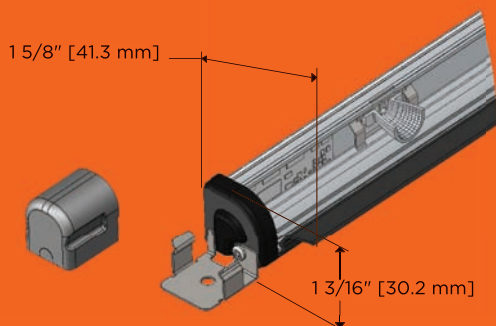
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Illuminance (lux)	825	1100	825	1100	825	1100
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End Fixtures

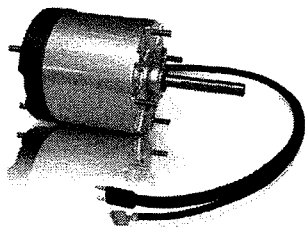


Nominal size	48" Low Power	48" High Power	60" Low Power	60" High Power	72" Low Power	72" High Power
Part Number 4000K L 4000K R	60-18185-0003 60-18185-1003	60-18185-0003 60-18185-1003	60-18185-0001 60-18185-1001	60-18185-0001 60-18185-1001	60-18185-0102 60-18185-1102	60-18185-0102 60-18185-1102
Length (in/mm) "X"	45 3/16 (1223)	45 3/16 (1223)	61 3/16 (1554)	61 3/16 (1554)	68 3/16 (1732)	68 3/16 (1732)
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Illuminance (lux)	825	1100	825	1100	825	1100
Power (w)	8	11	10	14	10	14

Illuminance (lux) +/-15%. Information provided is subject to change without notice.
All values are design or typical values when measured under laboratory or store conditions.



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ARKTIC® 59 1/20 HP

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Applications

Our ARKTIC 59 motors are primarily used in the evaporator of commercial refrigeration walk-in coolers and freezers, but can be used in many air-moving applications demanding high efficiency and dependability with output ratings up to 38 watts.

Innovative design

Combining over 100 years of ECM technology innovation by Regal Beloit, and our commitment to value, quality, and service we are now offering the most efficient 38 watt electronically commutated motor available. Our ARKTIC 59 significantly outperforms both shaded pole and PSC technology. With efficiencies three times higher than shaded pole motors and 40% higher than PSC, in addition to the reliable design, the ARKTIC 59 provides users the most reliable and best energy savings solution for their applications.

Optimize your performance

All of our ARKTIC 59 motors can be sold with mounting brackets.

Electrical Summary

Voltage: 115 (90-132) or 208-230 (180-264) V Single Phase

Output: Peak output 38 watts - 1/20 HP rated at 1550 RPM

Efficiency: ~66% peak

Speed Range: 500 - 1800 RPM

Speeds: 1 or 2 (speed regulated +/- 6%)

Rotation: CW, CCW, or CW/CCW (determined from the lead end of the motor)

Mechanical Summary

Type: 3.3" electronically commutated

Shaft: Single. 5/16" single shaft with single flat is standard. 8mm and double flat shafts available

Enclosure: Totally enclosed - air over required

Bearing: Ball bearing with low temperature grease

Mounting: Standard 0.5" - #10-32 studs on shaft end (2.8" bolt circle) and 0.5" - #10-32 studs on the opposite shaft end (2.8" bolt circle)

Operating Position: All angle

Control: Integrated to motor

Leads: Many customized fixed lead options are available.

Compliance: RoHS

UL: E258064

Environmental Summary

Storage Temps: -40 to 80° C ambient

Operating Temps: -40 to 25° C ambient

Design Life: 10 years, 83,720 hours on time for typical evaporator fan application

The Morrill Motors Pledge

Since 1946, Morrill Motors has earned the trust of customer around the world. Our commitment to quality and unique designs is unwavering. Working with you and your team, we will ensure exacting specifications and performance standards whether you select one of our many current production models, or choose to have us customize features and specifications to meet your special requirements.

We are pledged to ensure your success. Expect only the best service, quality and value when you specify Morrill Motors.

Resources

White Papers

[General Motor Knowledge Part 9](#)

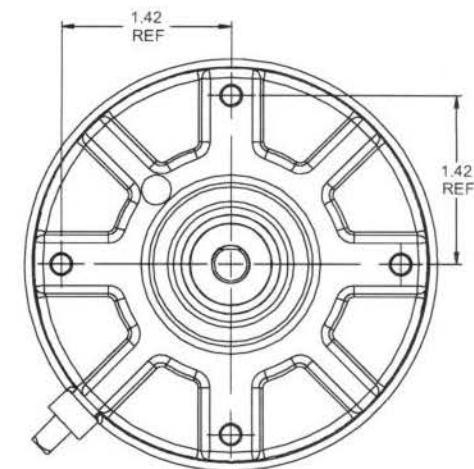
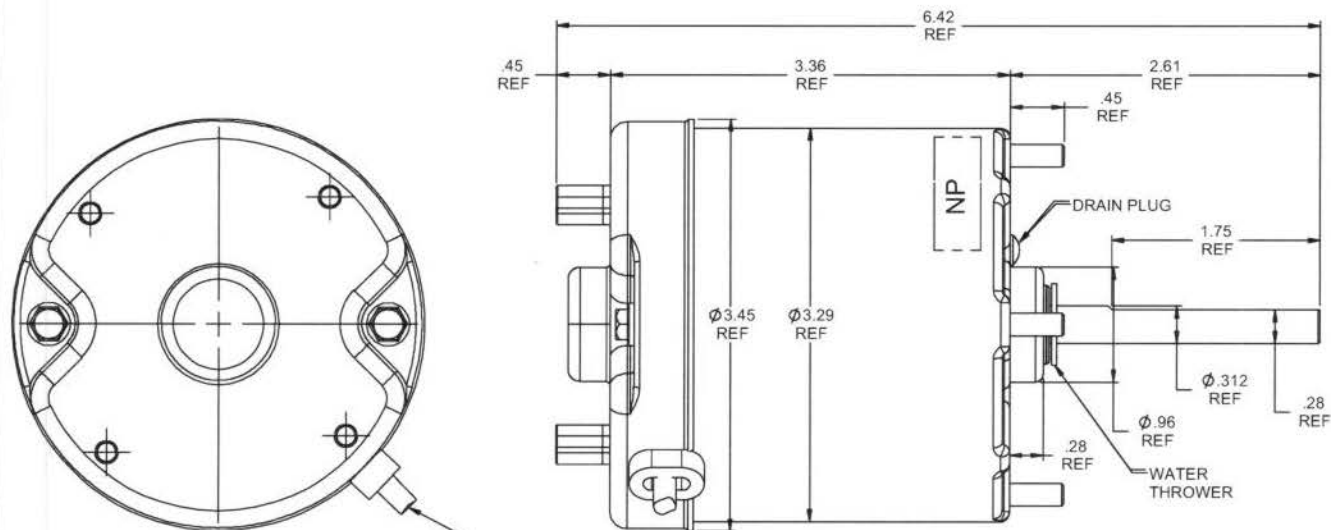
[General Motor Knowledge Part 34](#)

[General Motor Knowledge Part 39](#)

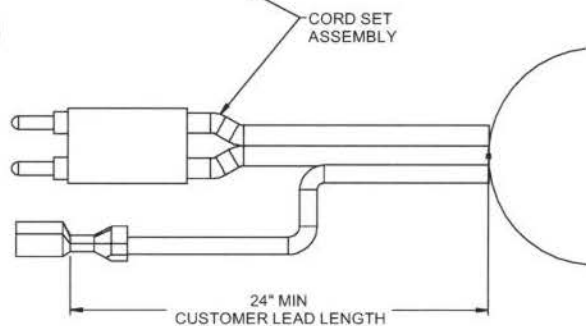
[General Motor Knowledge Part 40](#)

[Arctic 59 Brochure](#)

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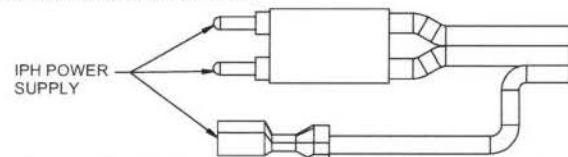
CCW ROTATION
REF



- NOTES:
1. DIM SHOWN ARE NOMINAL UNLESS / OTHERWISE SPECIFIED
 2. APPROXIMATE WEIGHT IS 2.92 LBS
 3. COLOR OF THE LABEL IS YELLOW

NAMEPLATE DATA	
MODEL	5SME59DVA2024
CUSTOMER	GEXPRO
CPN#	-
HP	1/20
RPM	1550/800
VOLTS	208-230
HZ	60/50
AMPS	0.45
ROTATION	CCW
MTG. POSITION	ANY

CONNECTION DIAGRAM



TOLERANCES UNLESS SPECIFIED		REGAL-BELOIT CORPORATION	
DEC	INCHES	TITLE	OUTLINE
X	±.1	1/20 HP ARKTIC 59	
XX	±.03	MATL	
2	UPDATED PER ISAAC 11-4965	PSG XXX	±.005
1	UPDATED PER ISAAC 11-4374	MVN9/14/2011	PSG XXXX ±.0005
NO	REVISION	BY & DATE	CHK ANG ±7°30"
THIRD ANGLE PROJECTION		RFP	PREV
		NETWORK FILE NAME	5sme59dva2024
		SIZE	DRAWING NO
		B	5SME59DVA2024
		PAGE	1 OF 1
		REV	2



REFINE BY SERVICE

Walgreens

7888 YORK RD

Parma OH 44130

440-845-4903

Store #: 10328

Northwest corner of York & Sprague

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Shop | Photo

Mon - Fri 8AM - 10PM**Sat** 8AM - 10PM**Sun** 8AM - 10PM

Pharmacy

Mon - Fri 8AM - 10PM**Sat** 9AM - 6PM**Sun** 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Redbox DVD rental
- Online Ordering
- Propane Gas Exchange
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



Meet Store
Pharmacy
Team

Vaccinations

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¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,007	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 10328_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,405	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	78,118		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	414	0.36	1,841	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 10328_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	285	0.17	856	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	143	0.08	428	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,083	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calcuated to be 58,765k Wh. See the document "WG 10328_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 10328_Lake Zurich Retrofit Report.pdf".

[FIND A STORE](#)**REFINE BY SERVICE**[Show More](#)**Walgreens****6 E BAGLEY RD**

Berea OH 44017

440-891-9422

Store #: 1234

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Team****Vaccinations**[Walk in any time or](#)[Schedule an appointment online](#)**Berea Pharmacy - 44017**

Searching for a local drugstore in the 44017 neighborhood? Look no further than Walgreens! We are a trusted Berea drugstore and have many pharmacy services including prescription refills and prescription transfers. Need to refill prescriptions in Berea? No problem! Walgreens can prepare your prescription the same day for in-

Retrofit Compressor Loads (Walgreen's Lake Zurich)

Background: Walgreen's has asked Anthony to determine the compressor energy cost with existing open air current retrofitted NT cases vs. enclosed Anthony NT glass display doors as a test store in Lake Zurich, IL.

Objective: Determine average compressor KWH/day usage on existing air curtain front NT opening and compare to average compressor KWH /day usage of retrofitted Anthony glass display doors. Also calculate yearly compressor cost based on \$0.10 KWH

Setup:



Before



After

E-Mon D-Mon Wattmeters
3 Phase Class 2000 KWH Meters
Model # 208100 Kit
Ser# xxxxxxxx
Ser# xxxxxxxx

- Procedure:
- 1) Locate compressor circuit breakers for NT compressors
 - 2) Install meters on existing compressors for NT openings only
 - 3) Record date and readings of start of field test
 - 4) Record readings and date of end of existing NT setup
 - 5) Install Anthony closed door Not display WO # 1454452
 - 6) Start compressors and record date & readings
 - 7) Record reading and date of end of test for retrofitted NT case

Test Data

----- Original Message -----

From: "Heavern, Tom" [theavern@anthonydoors.com]

Sent: 05/12/2009 09:08 AM MST

To: Menno Enters

Cc: Bill Mayyou; "Murth, Mike" <mikem@anthonydoors.com>; "Morris,

Keith" <kmorris@anthonydoors.com>; "Foege, Steve" <sfoege@anthonydoors.com>

Subject: Final Test Results from Lake Zurich

Menno,

I have calculated the KW differences on the open case vs. the closed case and come up with some interesting numbers. I have my engineers calculating the \$ savings using .10 cents per KW and will have that to you shortly. Below are the results

3/11-4/14 Test was with 20' open Dairy case First logger reading was 3,339kw used. Second logger was 1822kw used for a total of 5,161kw used in the 32 day test or 162kw per day

4/1`4-5/08 Test was with 8 glass doors the data logger was at 1299kw used in a 25 day period or 52kw per day

By my easy math that is a kw savings of 68%

I will have the full report to you soon but wanted to give you the actuals that we had from the photos of the loggers taken on 4/14(from your disc of photos) vs. the photo that you sent me on 5/8 via e-mail.

See Appendix "B" for Photos of meters

Existing open air setup



Start date for data	KW/HR	Day /#
Compressor 1	0	3/11/09
Compressor 2	0	3/11/09
End data for data		
Compressor 1	3339	4/14/09
Compressor 2	1822	4/14/09
Total	5161	32

Retrofit w/ 8 doors WO# 1454452, removed air curtain



Start date for data	KW/HR	Day/ #
Compressor 1	0	4/14/2009
Compressor 2	0	4/14/2009
End data for data		
Compressor 1	0	5/8/09
Compressor 2	1299	5/8/09
Total	1299	25

Results:

From the data above

Open Air Curtain Lineup

Compressor KWH consumed =	5161
Days used to consume KWH =	32
Daily KWH consumption value=	161
Yearly cost @ \$0.10 /KWH=	\$5,887

Anthony 8 Door Glass Lineup

Compressor KWH consumed =	1299
Days used to consume KWH =	25
Daily KWH consumption value=	52
Yearly cost @ \$0.10 /KWH=	\$1,897

Daily compressor usage decrease =	68%
Savings	\$3,990

Installed price without shelves	\$ 5,500
--	-----------------

PAYBACK	1.38 years
----------------	-------------------

Conclusions:

The average compressor usage decreased by 64% and based on a Utility rate of \$0.10 per KWH the yearly cost decreased by \$3990. The enclosure of the opening not only reduces compressor cost but also reduces wear & maintenance on equipment.

Appendix "B"

Open air curtain meter readings

Compressor 1



Compressor 2



Retrofit Anthony glass door meter reading

Compressor 1

Compressor 2

Not used



20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,568	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 1234_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,855	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	79,130		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	491	0.36	2,185	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 1234_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	339	0.17	1,016	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	169	0.08	508	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,667	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 1234_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 1234_Lake Zurich Retrofit Report.pdf".



REFINE BY SERVICE

Walgreens

6900 ROCKSIDE RD

Independence OH 44131

216-525-0732

Store #: 2132

Southwest corner of Brecksville Rd & Rockside Rd

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Mon - Fri 7AM - 10PM**Sat** 8AM - 10PM**Sun** 8AM - 10PM

Pharmacy

Mon - Fri 8AM - 8PM**Sat** 9AM - 6PM**Sun** 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

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- Online Ordering
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
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¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

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20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,160	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 2132_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,528	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	5	531	0.53	4,647	Cut Sheet 2
			Total kW	9.16		
			Total Annual kWh	76,536		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	435	0.36	1,935	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 2132_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	300	0.17	900	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	150	0.08	450	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	5	190	0.19			0.19	1,664	Cut Sheet 6
							Total kW	3.27	
							Total Annual kWh	26,577	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 2132_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 2132_Lake Zurich Retrofit Report.pdf".



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Walgreens

5090 TURNEY RD

Garfield Heights OH 44125

216-581-6791

Store #: 2226

Northwest corner of Turney Rd & Mccracken

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Mon - Fri 8AM - 10PM

Sat 9AM - 6PM

Sun 10AM - 6PM

Holiday hours may differ from our regular store hours.

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- Immunizations⁴
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20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,160	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 2226_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,528	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	5	531	0.53	4,647	Cut Sheet 2
			Total kW	9.16		
			Total Annual kWh	76,536		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	435	0.36	1,935	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 2226_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	300	0.17	900	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	150	0.08	450	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	5	190	0.19			0.19	1,664	Cut Sheet 6
							Total kW	3.27	
							Total Annual kWh	26,577	

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** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 2226_Lake Zurich Retrofit Report.pdf".



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Walgreens

11401 UNION AVE
Cleveland OH 44105
216-751-2902
Store #: 3256
Union & 116th

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Pharmacy

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Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 3256_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,405	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	4	424	0.42	3,718	Cut Sheet 2
			Total kW	9.06		
			Total Annual kWh	75,330		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	414	0.36	1,841	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 3256_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	285	0.17	856	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	143	0.08	428	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	4	152	0.15			0.15	1,332	Cut Sheet 6
							Total kW	3.23	
							Total Annual kWh	26,085	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 3256_Lake Zurich Retrofit Report.pdf".

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REFINE BY SERVICE

Walgreens

5400 PEARL RD
 Parma OH 44129
 440-886-6233
 Store #: 3314
 Pearl & Ridge

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Sun Open 24 hours

Pharmacy

Mon - Fri Open 24 hours
Sat Open 24 hours
Sun Open 24 hours

Holiday hours may differ from our regular store hours.

Services

Shop

- Open 24 hours
- Online Ordering
- Propane Gas Exchange
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Medication Compounding
- Health Tests¹
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



Meet Store
**Pharmacy
 Team**

Health Tests⁵

Available every day!
 Wellness Pack **\$65** - NEW!
 Body Composition **\$15** - NEW!
 Full Cholesterol Panel Test **\$35**
 Total Cholesterol & HDL Test **\$30**
 Blood Glucose Test **\$20**
 A1C Test **\$35**

Vaccinations

Walk in any time or

[Schedule an appointment online](#)

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated specialists who are trained to measure and fit customers for our products and can bill Medicare and Medicaid for select items.

⁴ Vaccines subject to availability and immunizing professionals on duty. State, age and health condition related restrictions apply. Other vaccines may be available. See pharmacy for details.

⁵ Available to ages 18 and over at select Walgreens. Subject to availability. Test results are not for diagnostic or treatment purposes and are not conclusive as to the absence or presence of any health condition. Recipients are encouraged to report test results to their primary care physician. Consultation with patient does not constitute medical advice.

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20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	5,168	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 3314_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	4,135	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	82,010		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	711	0.36	3,164	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 3314_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	491	0.17	1,472	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	245	0.08	736	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	29,330	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 3314_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 3314_Lake Zurich Retrofit Report.pdf".



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Walgreens

6300 PEARL RD

Parma Heights OH 44130

440-886-0775

Store #: 4159

Pearl & Stumph
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Shop | Photo

Mon - Fri 7AM - 10PM

Sat 7AM - 10PM

Sun 7AM - 10PM

Pharmacy

Mon - Fri 8AM - 10PM

Sat 9AM - 6PM

Sun 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Redbox DVD rental
- Online Ordering
- Propane Gas Exchange
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



**Meet Store
Pharmacy
Team**

Vaccinations

[Walk in any time or](#)
[Schedule an appointment online](#)

¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 32 watt 48" T8 fluorescent w/electronic ballast	28	10	280	0.28	1,529	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 4159_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,577	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.06		
			Total Annual kWh	76,812		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	443	0.36	1,972	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 4159_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	306	0.17	917	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	153	0.08	459	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
							Total kW	3.39	
							Total Annual kWh	27,640	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 4159_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 4159_Lake Zurich Retrofit Report.pdf".



REFINE BY SERVICE

Walgreens

9400 MENTOR AVE

Mentor OH 44060

440-255-6247

Store #: 4317

Mentor Avenue & Chillicothe

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Shop | Photo

Mon - Fri 7AM - 10PM**Sat** 7AM - 10PM**Sun** 7AM - 10PM

Pharmacy

Mon - Fri 8AM - 10PM**Sat** 9AM - 6PM**Sun** 10AM - 6PM

Take Care Clinic

Mon - Fri 8AM - 7:30PM**Sat** 9:30AM - 5PM**Sun** 9:30AM - 5PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Online Ordering
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Health Tests¹
- Pharmacy Staff at this location

Take Care Clinic

- Take Care Clinic

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



Meet Store
**Pharmacy
Team**

Health Tests⁵

Available every day!
Wellness Pack **\$65** - NEW!
Body Composition **\$15** - NEW!
Full Cholesterol Panel Test **\$35**
Total Cholesterol & HDL Test **\$30**
Blood Glucose Test **\$20**
A1C Test **\$35**

Vaccinations

Walk in any time or

Walgreens Store #4317 - Refrigerated Food Case Upgrades	Store Hours of Operation	5460	1/8/2013
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20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,221	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 4317_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,577	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	78,505		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	443	0.36	1,972	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 4317_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	306	0.17	917	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	153	0.08	459	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,307	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calcuated to be 58,765k Wh. See the document "WG 4317_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 4317_Lake Zurich Retrofit Report.pdf".

kW Savings	6.03
Annual Savings kWh	51,198



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Walgreens

6605 MAYFIELD RD

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Mayfield Heights OH 44124

440-605-1985

Store #: 5030

Northeast corner of Parker & Mayfield

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Shop | Photo

Mon - Fri 8AM - 10PM

Sat 8AM - 10PM

Sun 9AM - 9PM

Pharmacy

Mon - Fri 9AM - 9PM

Sat 9AM - 6PM

Sun 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Online Ordering
- Home Medical Equipment
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Medication Compounding
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



**Meet Store
Pharmacy
Team**

Vaccinations

[Walk in any time or](#)

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¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

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³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	2,945	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 5030_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,356	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	78,008		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	405	0.36	1,803	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 5030_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	280	0.17	839	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	140	0.08	419	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,020	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 5030_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 5030_Lake Zurich Retrofit Report.pdf".



Where to go

ZIP code, city and state, address or intersection

FIND A STORE

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REFINE BY SERVICE

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Walgreens

7260 PEARL RD

Middleburg

Heights OH 44130

440-886-2353

Store #: 5031

Southwest corner of Pearl & Bagley

MAKE THIS MY STORE

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Shop | Photo

Mon - Fri 7AM - 10PM
Sat 7AM - 10PM
Sun 8AM - 10PM

Pharmacy

Mon - Fri 8AM - 10PM
Sat 9AM - 6PM
Sun 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Redbox DVD rental
- Online Ordering
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
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- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



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² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

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Walgreens Store #5031 - Refrigerated Food Case Upgrades	Store Hours of Operation	5408	1/8/2013
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20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,191	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 5031_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,553	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	78,450		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	439	0.36	1,953	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 5031_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	303	0.17	909	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	151	0.08	454	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,275	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 5031_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 5031_Lake Zurich Retrofit Report.pdf".

kW Savings	6.03
Annual Savings kWh	51,175



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Walgreens

25524 CENTER RIDGE RD
[MAKE THIS MY STORE](#)

Westlake OH 44145

440-892-0525

Store #: 5473

Northwest corner of Columbia Road & Center Ridge Road
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Shop | Photo

Mon - Fri 8AM - 10PM

Sat 8AM - 10PM

Sun 8AM - 10PM

Pharmacy

Mon - Fri 9AM - 9PM

Sat 9AM - 6PM

Sun 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Online Ordering
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Medication Compounding
- Transplant Support
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
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- Film Roll Processing



**Meet Store
Pharmacy
Team**

Vaccinations

[Walk in any time or](#)
[Schedule an appointment online](#)

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³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,007	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 5473_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,405	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	78,118		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	414	0.36	1,841	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 5473_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	285	0.17	856	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	143	0.08	428	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,083	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 5473_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 5473_Lake Zurich Retrofit Report.pdf".



REFINE BY SERVICE

Walgreens

6101 ANDREWS RD

Mentor On The

Lake OH 44060

440-209-8391

Store #: 5820

Northeast corner of Andrews Road (S.R. 283) & Munson Road
(S.R. 615)

[Back to Results](#) | [Other Nearby Stores](#) | [Directions](#)

Shop | Photo

Mon - Fri 7AM - 10PM

Sat 7AM - 10PM

Sun 7AM - 10PM

Pharmacy

Mon - Fri 8AM - 10PM

Sat 9AM - 6PM

Sun 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Redbox DVD rental
- Online Ordering
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Medication Compounding
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



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¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,221	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 5820_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,577	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	78,505		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	443	0.36	1,972	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 5820_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	306	0.17	917	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	153	0.08	459	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,307	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 5820_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 5820_Lake Zurich Retrofit Report.pdf".



REFINE BY SERVICE

Walgreens

32798 WALKER RD
 Avon Lake OH 44012
 440-930-5873
 Store #: 6588

Northwest corner of Route 83 & Walker Rd

[Back to Results](#) | [Other Nearby Stores](#) | [Directions](#)

Shop | Photo

Mon - Fri 8AM - 10PM
Sat 8AM - 10PM
Sun 9AM - 9PM

Pharmacy

Mon - Fri 8AM - 10PM
Sat 9AM - 6PM
Sun 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Redbox DVD rental
- Online Ordering
- Propane Gas Exchange
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



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¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	2,945	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 6588_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,356	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	78,008		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	405	0.36	1,803	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 6588_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	280	0.17	839	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	140	0.08	419	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,020	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 6588_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 6588_Lake Zurich Retrofit Report.pdf".



REFINE BY SERVICE

Walgreens

4071 LEE RD

Cleveland OH 44128

216-561-1318

Store #: 6659

Southeast corner of Lee & Harvard

[Back to Results](#) | [Other Nearby Stores](#) | [Directions](#)

Shop | Photo

Mon - Fri 7AM - 11PM**Sat** 7AM - 11PM**Sun** 8AM - 10PM

Pharmacy

Mon - Fri 8AM - 10PM**Sat** 9AM - 6PM**Sun** 10AM - 6PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Online Ordering
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



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¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,866	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 6659_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	3,093	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	79,665		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	532	0.36	2,367	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 6659_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	367	0.17	1,101	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	183	0.08	550	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,976	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 6659_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 6659_Lake Zurich Retrofit Report.pdf".



REFINE BY SERVICE

Walgreens

318 W PROSPECT RD

Ashtabula OH 44004

440-992-3522

Store #: 9833

Southwest corner of Lake/Park & Rte 20
[Back to Results](#) | [Other Nearby Stores](#) | [Directions](#)

Shop | Photo

Mon - Fri 7AM - 12AM

Sat 7AM - 12AM

Sun 7AM - 12AM

Pharmacy

Mon - Fri 8AM - 10PM

Sat 8AM - 10PM

Sun 8AM - 10PM

Holiday hours may differ from our regular store hours.

Services

Shop

- Redbox DVD rental
- Online Ordering
- Propane Gas Exchange
- View Weekly Ad
- Print Store Coupons

Pharmacy

- Order Prescriptions
- Drive-Thru pharmacy
- Immunizations⁴
- Pharmacy Staff at this location

Photo

- Photo Same Day Pickup
- Make Photo Prints
- Create Photo Cards
- Create Photo Gifts
- Printer Cartridge Refills
- Film Roll Processing



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Vaccinations

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¹ This service is not available in all areas. Selecting more than one service may limit your results. Health tests include full cholesterol panel, total cholesterol and HDL, blood glucose, A1C and body composition.

² Call 1-866-WAG-YESS (1-866-924-9377) for more information.

³ Walgreens Home Health Care provides an expanded selection of products that includes: Lift Chairs, Scooters, Ostomy, Mastectomy and Diabetic Footwear to name a few. We have dedicated

20' Medium Temperature Reach-in Beverage Case - Existing

Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	10	590	0.59	3,651	Cut Sheet 1
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	8	849	0.85	7,435	Cut Sheet 2
Air Curtain (open reach-in case without doors)*	Comp. 1 & 2 kWh	Period (days)	kWh/day	Total kW	Annual kWh	
	5161	32	161	6.72	58,765	See "WG 9833_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Existing						
Lighting	Watts	Qty	Total Watts	Total kW	Annual kWh	
GE (1) 58 watt 60" T8 fluorescent w/electronic ballast	59	8	472	0.47	2,921	Cut Sheet 3
Fan Motors (operate 8760 hrs/yr)	Watts/motor	Qty	Total Watts	Total kW	Annual kWh	
Fasco 208V 1/20hp PSC fan motor	106.1	7	743	0.74	6,506	Cut Sheet 2
			Total kW	9.37		
			Total Annual kWh	79,278		

20' Medium Temperature Beverage Case - Retrofitted

Lighting	Watts/strip	Qty	Total Watts	kW	Interactive Factor kW (29%)	Interactive Savings kWh (29%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	10	280	0.28	0.08	502	0.36	2,235	Cut Sheet 4
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	8	304	0.30			0.30	2,663	Cut Sheet 6
Air Curtain (open reach-in case retrofitted with doors)**	Comp. 1 & 2 kWh	Period (days)	kWh/day	kW			Total kW	Annual kWh	
	1299	25	52	2.17			2.17	18,965	See "WG 9833_Lake Zurich Retrofit Report.pdf"
12' Frozen Food Case - Retrofitted									
Lighting	Watts/lamp	Qty	Total Watts	kW	Interactive Factor kW (50%)	Interactive Factor kWh (50%)	Total kW	Annual kWh	
Optimax 72" LED strip, center - 28 watts	28	4	112	0.11	0.06	347	0.17	1,040	Cut Sheet 4
Optimax 72" LED strip, ends - 14 watts	14	4	56	0.06	0.03	173	0.08	520	Cut Sheet 5
Fan Motors (operate 8760 hrs/yr)	Watts	Qty	Total Watts	kW			Total kW	Annual kWh	
Morrill Motors - Arktic.59 1/20hp	38	7	266	0.27			0.27	2,330	Cut Sheet 6
							Total kW	3.35	
							Total Annual kWh	27,753	

* Compressor energy use was monitored for 32 days on the beverage case without doors. The compressors were found to use 161 kWh/day. The annual energy use was calculated to be 58,765k Wh. See the document "WG 9833_Lake Zurich Retrofit Report.pdf".

** Compressor energy use was monitored for 28 days on the beverage case with new doors installed. The compressors were found to use 52 kWh/day. The annual energy use was calculated to be 18,965 kWh. See the document "WG 9833_Lake Zurich Retrofit Report.pdf".

Mercantile Customer Project Commitment Agreement
Cash Rebate Option

THIS MERCANTILE CUSTOMER PROJECT COMMITMENT AGREEMENT ("Agreement") is made and entered into by and between The Cleveland Electric Illuminating Company, its successors and assigns (hereinafter called the "Company") and Walgreen Co., Taxpayer ID No. 36-1924025 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: vmnofziger@firstenergycorp.com

If to the Customer:

Walgreen Co.
300 Wilmot Rd. MS#3301
Deerfield, IL 60015
Attn: Laura Hill
Telephone: 847-527-4729
Fax: 847-368-6518
Email: laura.hill@walgreens.com

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.

The Cleveland Electric Illuminating Company

(Company)

By: John C. Pargi

Title: V.P. Of Energy Efficiency

Date: 1-31-13

Walgreen Co.

(Customer)

By: Sam Hill

Title: Sr. Accountant - Credits + Incentives

Date: 1/21/13

Affidavit of Walgreen Co. – Exhibit A

STATE OF OHIO

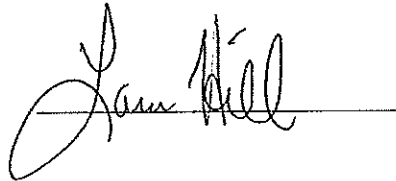
COUNTY OF

)
) SS:
)

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

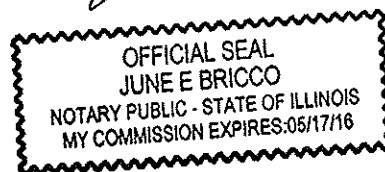
1. I am the ~~Sr. Tax Accountant - Credits & Incentives~~ of Walgreen Co. ("Customer") As part of my duties, I oversee energy related matters at the Company.
2. The Customer has agreed to commit certain energy efficiency projects to The Cleveland Electric Illuminating Company ("Utility"), which are the 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.



Sworn to before me and subscribed in my presence this 22ND day of JAN, 2013.

Notary



This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/10/2013 10:37:47 AM

in

Case No(s). 13-0222-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of The Cleveland Electric Illuminating Company and Walgreen Co. electronically filed by Ms. Jennifer M. Sybyl on behalf of The Cleveland Electric Illuminating Company and Walgreen Co.