

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

Case No.: 13-0044 -EL-EEC

Mercantile Customer: Kohl's Department Stores, Inc.

Electric Utility: The Cleveland Electric Illuminating Company

Program Title or

HVAC Retrofit, Lighting Upgrade, Motor Upgrade (VFD)

Description:

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. <u>10-834-EL-POR</u>

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:Kohl's Department Stores, Inc. Principal address: N56 W17000 Ridgewood Drive, Menomonee Falls, WI 53051 Address of facility for which this energy efficiency program applies: See Exhibit A Name and telephone number for responses to questions: Marcy Schaefer, 262-703-5239 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. The electric utility is: The Cleveland Electric Illuminating Company B) 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.)

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Capacity savings from the customer's demand response/demand

Both the energy savings and the capacity savings from the customer's energy efficiency program. (Complete all sections of the Application.)

reduction program. (Complete Sections 4, 5, 6, and 7.)

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.
В)	Ene	gy 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: 655316 k W5h e Exhibit A)
	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

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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:

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.

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Section 4: Demand Reduction/Demand Response Programs

A)	The	customer's program involves (check the one that applies):
		Coincident peak-demand savings from the customer's energy efficiency program.
		Actual peak-demand reduction. (Attach a description and documentation of the peak-demand reduction.)
		Potential peak-demand reduction (check the one that applies):
		☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a tariff of a regional transmission organization (RTO) approved by the Federal Energy Regulatory Commission.
		☐ The customer's peak-demand reduction program meets the requirements to be counted as a capacity resource under a program that is equivalent to an RTO program, which has been approved by the Public Utilities Commission of Ohio.
B)	On	what date did the customer initiate its demand reduction program?
	See	Exhibit A
C)		at is the peak demand reduction achieved or capable of being achieved ow calculations through which this was determined):
		_132 _ k\$∀ e Exhibit A)

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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									
		on 2: An exemption from the energy efficiency cost recovery anism implemented by the electric utility.								
	OR									
	Com	mitment 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 \$30.132. (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.)								

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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

OR

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 _____.

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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.

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Ohio | Public Utilities Commission

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

13-0044 12 0100 **-EL-EEC** Case No.: State of Ohio: Marcv , Affiant, being duly sworn according to law, deposes and says that: I am the duly authorized representative of: 1. Kohl's Department Stores. Inc [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. Signature of Affiant Title Energy Manager, Kohlis Sworn and subscribed before me this 26 day of September, 2011 Month/Year Geraldine DePulma COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL
GERALDINE DePALMA, Notary Public
Upper Moreland Twp., Montgomery County
My Commission Expires April 14, 2012

RWW ID#	Kohls #	Address	City	State	Zip
82749	10254	17555 Southpark Center	Strongsville	ОН	44136
82761	10242	6860 Ridge Road	Parma	ОН	44129
45344 / 65493	10238	3221 Westgate Mall	Fairview Park	ОН	44126
61446 / 54601	10464	35906 Detroit Road	Avon	ОН	44011
65495	10252	6245 Wilson Mills Road	Highland Heights	ОН	44143

Site Address: Kohls #10238 Principal Address: 3221 Westgate Mall

		Fillicipal Address.	3221 Westgate Mail		
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	Kohls #10238 HVAC	Kohl's Department Store completed a comprehensive HVAC efficiency upgrade to Store #10238. Project consisted of a one for one replacement of (8) inefficient RTU's with new, efficient units that are AHRI certified. There was also (1) additional unit that was installed that did not replace any existing unit. This single unit is also AHRI certified.	See "Kohls #10238 - HVAC Engineering Calculations.xlsx" and "Kohls #10238 - Custom Application.xls".	Potential replacement date would have been 2012. There were 2.5 years of service estimated to exist in the replaced equipment.	N/A
2	Kohls #10238 Motors & Drives		See "Kohls #10238 - Motors and Drives Application.xls" and "Kohls #10238 - 7.5 HP VFD Calc.pdf".	N/A	VFD was added to HVAC system which did not previously have one installed.

Customer Legal Entity Name: Kohl's Department Stores, Inc.

Site Address: Kohls #10238

Principal Address: 3221 Westgate Mall

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
2010	1,075,500	1,075,500	317,889 1,075,500
Average	1,075,500	1,075,500	696,695

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)	Rebate Amount (G)	Rebate Amount (H) \$ Note 2
1	Kohls #10238 HVAC	01/28/2011	\$123,611	\$61,805	283,283	283,283	52	\$22,663	\$16,997
2	Kohls #10238 Motors & Drives	01/28/2011	\$16,522	\$8,261	60,000	60,000	11	\$2,250	\$1,688
					-		-		
					-	-	-		
					-		-		
					-		-		
		Total	\$140,133		343,283	343,283	63	\$24,913	\$18,685

Eligible

Drocerinting

Docket No. 13-0044

Site: 3221 Westgate Mall

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility A Co \$/M	st	 / Avoided Cost \$	U	tility Cost \$	Cash Rebate	Administrator Variable Fee \$	То	tal Utility Cost \$	UCT
	(A)	(E	3)	(C)		(D)	(E)	(F)		(G)	(H)
1	283	\$	308	\$ 87,330	\$	2,025	\$16,99)7	\$	19,022	4.6
2	60	\$	308	\$ 18,497	\$	2,025	\$1,68	88	\$	3,713	4.98

Total	343	\$	308	105,827	4.050	\$18,685	\$0	22 <i>.</i> 735	4.7
	0.0	Τ			.,	T-0,000	Ψ.	,,	

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)

Kohl's Department Stores, Inc. ~ Kohls #10238 Docket No. 13-0044

Site: 3221 Westgate Mall



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Kohl's Department Stores, Inc.
Site Name:	Kohls #10238
Completed by (Name):	Marcello Crestani
Date completed:	5/5/2010

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
RTU HVAC	283,283	22662.64
Total Project Energy Savings kWh		
Total Custom Prescriptive	\$ 22,662.64	

Notes about this repate calculation:	

Client Kohls RAT # 45344

Address 3221 Westgate Mall

Existing HVAC

RTU #	Model #	Ton	EER/SEER	AHRI Cert #	kW/Ton
1	York D1EG240N24046FDC	20	9.5		1.26
2	York D1EG240N24046FDC	20	9.5		1.26
3	York D1EG240N24046FDC	20	9.5		1.26
4	York D1EG240N24046FDC	20	9.5		1.26
5	York D1EG240N24046FDC	20	9.5		1.26
6	York D1EG240N24046FDC	20	9.5		1.26
7	York D1EG240N24046FDC	20	9.5		1.26
8	York D1EG240N24046FDC	20	9.5		1.26

Total Existing kW 71.79

HVAC Operating Hours 5252 Total Existing kWh 377038.3158

New HVAC

	<u></u>				
RTU #	Model #	Ton	EER/SEER	AHRI Cert #	kW/Ton
1	ZR240S24C4DKR1	20	12.1	1429021	0.99
2	ZJ240S24Q4DKR1	20	11.6	1429008	1.03
3	ZJ240S24Q4DKR1	20	11.6	1429008	1.03
4	ZR240S24C4DKR1	20	12.1	1429021	0.99
5	ZR240S24C4DKR1	20	12.1	1429021	0.99
6	ZJ240S24Q4DKR1	20	11.6	1429008	1.03
7	ZJ240S24Q4DKR1	20	11.6	1429008	1.03
8	ZR240S24C4DKR1	20	12.1	1429021	0.99
9	ZJ150S20Q4DKR5	12.5	12.2	3568395	0.98

Total New kW 19.83

HVAC Operating Hours 5252 Total New kWh 104171.9008

Coincidence Factor Reduction (Compressor Run-time) 10417.19 10%

Total New kWh (w/ Coincidence Factor) 93754.71

TOTAL kWh REDUCTION 283283.61



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Project Name:	Kohls #10238
Site Name:	3221 Westgate Mall, Fairview, OH 44126
Completed by (Name):	Marcello Crestani
Date completed:	5/5/2010

Variable Frequency Drive Rebate Form

				VFD and C	ontrolled Mo	otor Nameplate	DATA				
Motor Application	VFD Manufacturer	VFD Model Number	Unique Motor ID(s)	Motor Location	Enclosure type: TEFC or ODP	Annual Hours of Operation ²	Load Factor (LF) ³	Motor Model Number	Motor HP	Motor Nominal Efficiency	Total Motor Incentive ¹ \$
HVAC	Emerson	HSKD		RTU	TEFC	5356	0.8	Unknown	7.5	80%	2,250
								Incen	tive through 10/1	1/2011 @ \$30/hp	2,250

⁽¹⁾ VFD incentives are calculated at a flat rate of \$30 per horsepower controlled, up to a maximum of 500 hp controlled per VFD.

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, use only the horsepower rating of one motor to figure controlled horsepower. For instance, if a single VFD controls two 30hp motors with only one operating at a time, the incentive calculation should be based on 30 hp: 30hp x \$30/hp = \$900.

- (2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value.
- (3) For all motor and VFD applications, use the Load Factor (LF) default value of 0.80, unless data is available to support the use of a motor-specific LF other than 0.80. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.

Site Address: Kohl's #10242 Principal Address: 6860 Ridge Road

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	Kohl's #10242	Energy Saving Retrofit of HVAC RTU's	See "Kohls #10242 - HVAC Engineering Calculations.xls".	n/a	N/A

Customer Legal Entity Name: Kohl's Department Stores, Inc.

Site Address: Kohl's #10242

Principal Address: 6860 Ridge Road

Weather Adjusted Usage with Energy Efficiency Unadjusted Weather Adjusted Addbacks, kwh Usage, kwh (A) Usage, kwh (B) (c) Note 1

1,179,299 2011 1,164,480 1,164,480

1,164,480 1,164,480 1,179,299 Average

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) \$ Note 2
1 Kohl's #10	242	08/30/2011	\$2,575	\$1,288	43,620	43,620	8	\$3,490	\$1,288
					-	-	-		
					-		-		
						-	-		
							-		
						-	-		
						-	-		
		Total	\$2,575		43,620	43,620	8	\$3,490	\$1,288

Docket No. 12-0100 Site: 6860 Ridge Road

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
-	(A)	(B)	(Č)	(D)	(E)	(F)	(Ġ)	(H)
1	44	\$ 308	\$ 13,447	\$ 4,050	\$1,288		\$ 5,338	2.5

Total	44	\$	308	13,447	4,050	\$1,288	\$0	5,338	2.5
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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)

Kohl's Department Stores, Inc. ~ Kohl's #10242 Docket No. 12-0100

Site: 6860 Ridge Road



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Kohl's #10242
Site Name:	Kohl's #10242
Completed by (Name):	Marcello Crestani
Date completed:	9/22/2011

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
HVAC Replacement	43,620	3489.62
Total Project Energy Savings kWh	43,620	
Total Custom Prescriptive	Rebate Amount \$	\$ 3,489.62

Notes about this repate calculation:						
See HVAC Savings Worksheet attached with application						

HVAC SAVINGS WORKSHEET

Kohl's #10242 6860 Ridge Road Parma, OH 44129

Baseline: ASHRAE 90.1 (2004) PRE 1/1/2010					
0-5.4 Tons	13 SEER (1.02 kW/ton)				
5.4-11.25 Tons	10.3 (1.17 kW/ton)				
11.25-20 Tons	9.7 (1.24 kW/ton)				
20-60 Tons	9.5 (1.263 kW/ton)				

*Equivalent Full Load Hours per ASHRAE standards for Chicago, IL region. *EFLH: 1090

		syste	m informat	ion		
					Baseline	Installed
					(ASHRAE)	Equipment
Unit No.	Make	Model	Ton	EER	kW/ton	kW/ton
AC-1	York	ZR240S24C4DKV1	20	12.1	1.26	0.99
AC-2	York	ZR240S24C4DKV2	20	12.1	1.26	0.99
AC-3	York	ZR240S24C4DKV3	20	12.1	1.26	0.99
AC-4	York	ZJ180S24C4DKV1	15	12.4	1.24	0.97
AC-5	York	ZJ180S24C4DKV2	15	12.4	1.24	0.97
AC-6	York	ZJ240S24Q4DKV1	20	11.6	1.26	1.03
AC-7	York	ZJ240S24Q4DKV2	20	11.6	1.26	1.03
AC-8	York	ZJ240S24Q4DKV3	20	11.6	1.26	1.03
AC-9	York	ZJ120S0Q4DKV5	10	12.2	1.17	0.98
		total tons:	160			

	kW and kWh initial savings calcs									
Baseline (kW)	Installed Equipment (kW)	kW savings		installed kWh	initial kWh savings					
25.3	19.8	5.4	27,533.40	21,619.83	5,913.57					
25.3	19.8	5.4	27,533.40	21,619.83	5,913.57					
25.3	19.8	5.4	27,533.40	21,619.83	5,913.57					
18.6	14.5	4.1	20,274.00	15,822.58	4,451.42					
18.6	14.5	4.1	20,274.00	15,822.58	4,451.42					
25.3	20.7	4.6	27,533.40	22,551.72	4,981.68					
25.3	20.7	4.6	27,533.40	22,551.72	4,981.68					
25.3	20.7	4.6	27,533.40	22,551.72	4,981.68					
11.7	9.8	1.9	12,753.00	10,721.31	2,031.69					
200.46	160.44	40.02	218501.40	174881.15	43,620.25					

Customer Legal Entity Name: Kohl's Department Stores, Inc.

Site Address: Kohl's #10252
Principal Address: 6245 Wilson Mills Road

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	Kohl's #10252	Purchased and installed (8) new 7.5HP Yaskawa VFD on HVAC unit. A VFD was not previously installed on HVAC system.	See "Kohls #10252 - Motors and Drives Application.xls" and "Kohls #10252 - 7.5 HP VFD Engineering Calculation.pdf".	VFD was added to HVAC system which did not previously have one installed.	N/A

Customer Legal Entity Name: Kohl's Department Stores, Inc.

Site Address: Kohl's #10252

Principal Address: 6245 Wilson Mills Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1
			43,792
2010	968,800	968,800	968,800
Average	968,800	968,800	506,296

Project Number		Project Name	In-Service Date	Project Cost\$	50% of Project Cost \$		KWh Saved/Year (E) eligible for incentive	Utility Peak Demand Reduction Contribution, KW (F)	Prescriptive Rebate Amount (G) \$	Eligible Rebate Amount (H) \$ Note 2
1 K	Kohl's #10252		02/02/2011	\$14,506	\$7,253	48,000	48,000	8	\$1,800	\$1,350
						-	-	-		
						-		-		
						-	-	-		
						-		-		
						-	-	-		
						-		-		
			Total	\$14,506		48,000	48,000	8	\$1,800	\$1,350

Docket No. 12-0100

Site: 6245 Wilson Mills Road

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
-	(A)	(B)	(Č)	(D)	(E)	(F)	(Ġ)	(H)
1	48	\$ 308	\$ 14,797	\$ 4,050	\$1,350		\$ 5,400	2.7

Total	48	\$	308	14.797	4.050	\$1,350	\$0	5,400	2.7
	. •	Τ		/	.,	4 – / – 0	Ψ.	-,	

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)

Kohl's Department Stores, Inc. ~ Kohl's #10252 Docket No. 12-0100

Site: 6245 Wilson Mills Road

FanSave 4.1 for HVAC

100

Energy saving calculator for fans



			E	nergy Consumption
Fan Data ———	IPMENT DATA - EXISTING	3	GENERAL DATA Measurement Units	7.0 Power consumption
Fan type Centrifugal	▼ Impeller type	Forward curved (F)	Calculated by:	§ 5.0
Nominal volume flow	11,500.00 cfm	F	Calculated for:	3.0
Total pressure increase	3 in-H2O = 0.11 p	esi 80%	EQUIPMENT DATA - NEW Improved Control Flow by:	2.0
- Transmission —		ting Flow Control ¬	ABB Drives for HVAC (ACH550) ▼	Air flow rate
Nominal efficiency	100.0 % Cycli	ng (on/off) ▼	ACH550-U1-015A-4	23003450460057506900805092001035 0 1500
-Motor and Supply	Data			Cycling (on/off) ——AC drive control
		V4C0/400 V	RESULTS	16,000
Supply voltage	7-70	/460/480 V uired motor power:		14,000
Motor power	7.5 Hp 7.5 H	•	Specific fan power 1.2 kW/(m³/s)	12,000
Motor efficiency	80.0 %	ding 10% safety margin	Saving percentage 43.2 % Annual energy consumption:	8,000
Coperating Profile			with existing control method 15 MWh	6,000
Annual running time	3,640 h	0 10 20 30	with improved control method 8 MWh Annual energy saving 6 MWh	4,000
\$ 5 % =	182 h at nom.flow	11500	Annual CO ₂ reduction 3 t	2,000
‡ 10 % =	364 h at 90% flow	10350	CO₂ emission	Cycling (on/off) VSD
<u>↑</u> 15 % =	546 h at 80% flow	9200	Economic Data	Cycling (Gil/Oil) V3D
20 % =	728 h at 70% flow	(Ct 8050	Currency \$	Economic Results
20 % =	728 h at 60% flow	≥ 6900	Energy price 0.11 \$/kWh	Economic Results
15 % =	546 h at half flow	5750	Investment cost 1,800 \$	Annual saving 711 \$
1 10 % =	364 h at 40% flow	4600	Interest rate 5.0 %	Payback period 2.5 years
\$ 5 % =	182 h at 30% flow	3450	Service life 15.0 years	Net present value 5,578 \$
<u>*</u> % =	0 h at 20% flow	2300		





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Project Name:	Kohls #10252				
Site Name: 6245 Wilson Mills Rd., Highland Heights, OH 44143					
Completed by (Name):	Marcello Crestani				
Date completed:	2/2/2011				

Variable Frequency Drive Rebate Form

	1			VFD and C	ontrolled Mo	otor Nameplate	DATA				
Motor Application	VFD Manufacturer	VFD Model Number	Unique Motor ID(s)	Motor Location	Enclosure type: TEFC or ODP	Annual Hours of Operation ²	Load Factor (LF) ³	Motor Model Number	Motor HP	Motor Nominal Efficiency	Total Motor Incentive ¹ \$
			n/a								
HVAC	Emerson	HSKD		RTU Supply Fan	TEFC	5356	0.8	n/a	7.5	80%	1,800
	Incentive through 10/11/2011 @ \$30/hp										
								Incen	ave unrough 10/1	1/2011 @ \$50/IIP	1,800

⁽¹⁾ VFD incentives are calculated at a flat rate of \$30 per horsepower controlled, up to a maximum of 500 hp controlled per VFD.

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, use only the horsepower rating of one motor to figure controlled horsepower. For instance, if a single VFD controls two 30hp motors with only one operating at a time, the incentive calculation should be based on 30 hp: 30hp x \$30/hp = \$900.

- (2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value.
- (3) For all motor and VFD applications, use the Load Factor (LF) default value of 0.80, unless data is available to support the use of a motor-specific LF other than 0.80. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.

Site Address: Kohls #10254

Principal Address: 17555 Southpark Center

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	Kohl's #10254	HVAC Energy Saving Retrofit	See "Kohls #10254 - HVAC Savings Worksheet.xls" and "Kohls #10254 - Custom Application.xls".	Equipment had approximately 2 years of useful service remaining. Approx 7/2013.	N/A

Docket No. 12-0100

Site: 17555 Southpark Center

Customer Legal Entity Name: Kohl's Department Stores Inc.

Site Address: Kohls #10254

Principal Address: 17555 Southpark Center

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	Weather Adjusted Usage with Energy Efficiency Addbacks, kwh (c) Note 1	
2010	1,098,900	1,098,900	21,894 1,098,900	
Average	1,098,900	1,098,900	560,397	

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)	Rebate Amount (G)	Rebate Amount (H) \$ Note 2
1	Kohl's #10254		07/04/2011	\$124,424	\$62,212	44,151	44,151	8	\$3,532	\$2,649
						-	-	-		
						-		-		
						-	-	-		
						-	-	-		
						-	-	-		
						-	-	-		
			Total	\$124,424		44,151	44,151	8	\$3,532	\$2,649

Eligible

Docket No. 12-0100

Site: 17555 Southpark Center

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	Utility Avoided Cost \$/MWh	Utility Avoided Cost \$	Utility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Total Utility Cost \$	UCT
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1	44	\$ 308	\$ 13,611	\$ 4,050	\$2,649		\$ 6,699	2.0

Total	44	\$	308	13,611	4,050	\$2,649	\$0	6,699	2.0
	• •	T		,	.,000	Y = / U . U	70	0,000	

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)

Kohl's Department Stores Inc. ~ Kohls #10254 Docket No. 12-0100

Site: 17555 Southpark Center



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Mercantile Customer Program - Custom Project Rebate Calculator

Project Name and Number:	Kohl's #10254
Site Name:	Kohl's #10254
Completed by (Name):	Marcello Crestani
Date completed:	9/26/2011

Energy Conservation Measure	Annual Energy Savings kWh	Eligible Prescriptive Rebate Amount kWh * \$0.08
HVAC Retrofits	44,151	3532.04
Total Project Energy Savings kWh	44,151	
Total Custom Prescriptive	Rebate Amount \$	\$ 3,532.04

Notes about this rebate calculation:					

HVAC SAVINGS WORKSHEET

Kohl's #10254 17555 Southpark Center Strongsville, OH 44136

Baseline: ASHRAE 90.1 (2004) PRE 1/1/2010					
0-5.4 Tons 13 SEER (1.02 kW/ton)					
5.4-11.25 Tons	10.3 (1.17 kW/ton)				
11.25-20 Tons	9.7 (1.24 kW/ton)				
20-60 Tons	9.5 (1.263 kW/ton)				

*Equivalent Full Load Hou	rs
per ASHRAE standards for Chicago	, IL region.
*EFLH:	1090

	system information									
					Baseline	Installed				
					(ASHRAE)	Equipment				
Unit No.	Make	Model	Ton	EER	kW/ton	kW/ton				
AC-1	York	ZR240S24C4DKV1	20	12.1	1.26	0.99				
AC-2	York	ZR240S24C4DKV1	20	12.1	1.26	0.99				
AC-3	York	ZR240S24C4DKV1	20	12.1	1.26	0.99				
AC-4	York	ZJ240S24Q4DKV1	20	11.6	1.26	1.03				
AC-5	York	ZJ240S24Q4DKV2	20	11.6	1.26	1.03				
AC-6	York	ZJ240S24Q4DKV3	20	11.6	1.26	1.03				
AC-7	York	ZJ240S24Q4DKV4	20	11.6	1.26	1.03				
AC-8	York	ZJ180S24C4DKV1	15	12.4	1.24	0.97				
AC-9	York	ZJ120S20Q4DKV5	10	12.2	1.17	0.98				
	total tons: 165									

kW and kWh initial savings calcs								
Baseline (kW)	Installed Equipment (kW)	kW savings		installed kWh	initial kWh savings			
25.3	19.8	5.4	27,533.40	21,619.83	5,913.57			
25.3	19.8	5.4	27,533.40	21,619.83	5,913.57			
25.3	19.8	5.4	27,533.40	21,619.83	5,913.57			
25.3	20.7	4.6	27,533.40	22,551.72	4,981.68			
25.3	20.7	4.6	27,533.40	22,551.72	4,981.68			
25.3	20.7	4.6	27,533.40	22,551.72	4,981.68			
25.3	20.7	4.6	27,533.40	22,551.72	4,981.68			
18.6	14.5	4.1	20,274.00	15,822.58	4,451.42			
11.7	9.8	1.9	12,753.00	10,721.31	2,031.69			
207.12	166.61	40.51	225,760.80	181,610.29	44,150.51			

TOTAL SYSTEM kWh saved: 44,150.51

Site Address: Kohl's #10464
Principal Address: 35906 Detroit Road

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	Kohl's #10464 Lighting	Installing high efficient fixtures such as 39W and 100W Metal Halides; 2, 3, and 4 feet T8 fixtures; 21-watt and 28-watt T5 fixtures; and 32-watt LED track heads.	See "Kohls #10464 - Lighting Worksheet.xls".	Useful remaining life of existing lighting was approximately 2 years.	N/A
2	Kohls #10464 Motors & Drives	Purchased and installed (8) new 7.5HP Yaskawa VFD on HVAC unit. A VFD was not previously installed on HVAC system. (Dept. 54601)	See "Kohls #10464 - Motors and Drives Application.xls" and "Kohls #10464 - VFD Calculations.pdf".	N/A	VFD was added to HVAC system which did not previously have one installed.

Exhibit 1

Customer Legal Entity Name: Kohl's Department Stores, Inc.

Site Address: Kohl's #10464

Principal Address: 35906 Detroit Road

	Unadjusted Usage, kwh (A)	Weather Adjusted Usage, kwh (B)	with Energy Efficiency Addbacks, kwh (c) Note 1
2010	1,099,520	1,099,520	152,015 1,116,484
Average	1,099,520	1,099,520	634,250

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)	Rebate Amount (G)	Rebate Amount (H) \$ Note 2
1	Kohl's #10464 Lighting	03/11/2011	\$66,414	\$33,207	128,262	128,262	37	\$6,413	\$4,810
2	Kohls #10464 Motors & Drives	08/25/2010	\$14,506	\$7,253	48,000	48,000	8	\$1,800	\$1,350
					-		-		
					-	-	-		
							-		
						-			
					-		-		
		Total	\$80,920		176,262	176,262	45	\$8,213	\$6,160

Weather Adjusted Hoose

Eligible

Docket No. 13-0044

Site: 35906 Detroit Road

Notes

(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.

⁽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.



Exhibit 3 Utility Cost Test

UCT = Utility Avoided Costs / Utility Costs

Project	Total Annual Savings, MWh	ć	Avoided Cost MWh	Uti	lity Avoided Cost \$	U	tility Cost \$	Cash Rebate \$	Administrator Variable Fee \$	Tot	tal Utility Cost \$	UCT
	(A)		(B)		(C)		(D)	(E)	(F)		(G)	(H)
1	128	\$	308	\$	39,541	\$	2,025	\$4,810		\$	6,835	5.8
2	48	\$	308	\$	14,797	\$	2,025	\$1,350		\$	3,375	4.38

Total	176	\$	308	54,338	4,050	\$6,160	\$0	10,210	5.3
		т -		,	-,	T -/	T -	,	

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)

Kohl's Department Stores, Inc. ~ Kohl's #10464 Docket No. 13-0044

Site: 35906 Detroit Road

Lighting Inventory Form

 Applicant Name:
 Kohls #10464

 Facility Name:
 Kohls #10464

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

For existing or proposed control, choose OCC for Occupany Sensor, DAYLTG for photosensor, or NONE for none. Controls must save energy to qualify.

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

				ASIC INFORMATION				NSTALLATION					POST-INSTA	ALLATION								Energy Calculations						Post Fixture
Line Building Address I Item	Floor	Area Description	Interior or Exterior Fixture	Predominant Space Type	Area Cooling	Pre Fixture Qty	Pre Fixture Code	Fixture	Pre kW / Space	Existing Control	Existing Pos Sensor Fixto Quantity Qt	t Post Fixture Code re	Post Watts/ Fixture	Post kW / Space	Proposed Control	Proposed Interior Ch Sensor in Connec	cted Change	in Connected	Applicant Coincidence	Coincidence Factor	Factor Factor	ctive Pre Controls Post for Factor Control gy) Factor	Demand Savings	Applicant Equivalent	Prescribed A Equivalent II	Annual Annual nterior Exterior	Saved	Annual kWh Saved Number
								(W)	(kW)	arop down	When applicable		(W)	(kW)	Please enter DAYLTG, OCC o NONE.	Quantity Load When applicable (kW) exclu	uding Load (k	W) (kW)	(CF)		(demand) (ener	gy) Facto	or (KW)	Full Load Hours (EFLH) Estimate	Full Load Fix Hours	ture kWh Saved scluding Sixture kWh Saved (excluding	exit signs	(Sensors only)
																CFLS OF	s or Exit Si	CFLs CFL or LED exit sign	Estimate					Estimate	CFL	Ls or Exit CFLs or Exit Signs) Signs)	only)	
																										aigiis) aigiis)		
e.g. 400 North Street e.g. Example	2	Office	Interior	Office - Small	Cooled Space	3	F44ILL Example Cut Sheet 1	112	0.34	NONE	3	CFT55/1-BX Example Cut Sheet 2	56	0.17	occ	3		0.17	84%	84%	34% 129	% 30% 30% 50%	0.19	2,808	3,435		646	194 1 260 1A
				Restaurant - Fast Food	Uncooled space						5 5		25				0.13							8,760				260 1A
1 35906 Detroit Road 2 35906 Detroit Road 3 35906 Detroit Road 4 35906 Detroit Road 5 35906 Detroit Road 6 35906 Detroit Road 7 35906 Detroit Road	1	Sales Floor Sales Floor	Interior Interior	Retail - Single-Story Large Retail - Single-Story Large	Cooled Space Cooled Space	144 51	F42SS F41SS	94 57	13.54 2.91	NONE NONE	14-	F42LL F41LL	60 32	8.64 1.63	NONE NONE	4.90 1.28			89% 89%	89% 89%	34% 12°	%	5.84 1.52		3,068	16,823 4,381		
3 35906 Detroit Road 4 35906 Detroit Road	1	Sales Floor Sales Floor	Interior Interior	Retail - Single-Story Large Retail - Single-Story Large	Cooled Space Cooled Space	25 12	F31SS F21SS	46	1.15 0.34 0.30	NONE	25		24 16	0.60 0.19	NONE NONE	0.55 0.14			89% 89%	89%	34% 129	%	0.66 0.17		3,068 3,068 3,068	1,890 495	H	
5 35906 Detroit Road 6 35906 Detroit Road	1	Sales Floor Sales Floor	Interior Interior	Retail - Single-Story Large Betail - Single-Story Large	Cooled Space Cooled Space	2 50	F43SS F42SE	86	4.30	NONE NONE	12 2 50		93 56	0.19 2.80	NONE NONE	0.12 1.50	1		89% 89%	89%	34% 12° 34% 12° 34% 12°	%	0.14 1.79		3,068 3,068			
7 35906 Detroit Road 8 35906 Detroit Road	1	Sales Floor	Interior	Retail - Single-Story Large Retail - Single-Story Large Retail - Single-Story Large	Cooled Space	18 206	F42SE MH100/1	86 128	1.55 26.37	NONE NONE		Cut Sheet 2	42 39	0.76 8.03	NONE	0.79 18.33)		89% 89%	89%	34% 12° 34% 12° 34% 12°	% 4	0.94 21.87		3,068 3,068	2,721		
7 35906 Detroit Road 8 35906 Detroit Road 9 35906 Detroit Road 10 35906 Detroit Road 11	1	Sales Floor	Interior	Retail - Single-Story Large Retail - Single-Story Large	Cooled Space Cooled Space Cooled Space Cooled Space Cooled Space	45 110	MH150/1 MH70/1	190	8.55	NONE	45		128	5.76 3.52	NONE	2.79 6.93			89%	89%	34% 12° 34% 12°	% /	3.33 8.26		3,068 3,068 2	9,587		
10 33906 Detroit Road	'	Sales Flour	III(erioi	netali - Siligie-Stury Large	Cooled Space	110	MIT/U/I	95	10.45	NONE	110	Cut Sneet 4	32	3.32	NONE	6.93	·		09%	03%	34% 12	/e	0.20		3,000	23,013		
12										NONE NONE					NONE NONE													
13 14 15										NONE NONE					NONE NONE													
16 17										NONE NONE					NONE NONE													
18										NONE NONE					NONE NONE													
20 21										NONE NONE					NONE NONE													
18 19 20 21 22 23										NONE NONE					NONE NONE													
										NONE NONE					NONE													
26 27										NONE NONE					NONE NONE													
25 26 27 28 29 30										NONE NONE					NONE													
30 31										NONE NONE					NONE NONE													
32										NONE NONE					NONE NONE													
32 33 34										NONE					NONE													
35 36 37										NONE NONE					NONE NONE													
38										NONE NONE					NONE													
39 40										NONE NONE					NONE													
38 39 40 41 41 42 43 44 45										NONE NONE					NONE													
43										NONE NONE					NONE NONE													
45 46 47										NONE NONE					NONE NONE													
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PROJECT BASIC INFORMATION		PRE-INS	STALLATION				POST-INSTAL	LATION									En	nergy Calculations								Post Fixtu
Line Building Address Floor Area Description Interior or Exterior Predominant Space Type Area Cooling Fixture	Pre Fixture Qty	Pre Fixture Code	Pre Watts / Fixture (W)	Pre kW / Space (kW)	Existing Existing Post Control Sensor Fixture drop down Quantity When applicable	Post Fixture Code	Post Watts/ Fixture (W)	Post kW /	Proposed Control	Proposed Sensor Quantity	Interior Change in Connected	Exterior Change in Connected Load (kW) excluding CFLs or Exit Signs	Change in Connected	Applicant Coincidence	Coincidence Factor	Interactive In Factor	teractive I	Pre Controls Post Factor Controls Factor	Demand Savings (kW)	Applicant Equivalent	Prescribed Equivalent	Annual Interior	Annual Exterior Fixture kWh Saved (excluding CFLs or Exit Signs)	Annual kWh Saved	Annual kWh Saved	Cut Sheet Number
			(W)	(kW)	drop down Quantity Qty When applicable		(W)	(kW)	Control Please enter AYLTG, OCC or NONE.	Quantity When applicable	Load (kW) excluding	Connected Load (kW)	Load (kW)	Factor (CF)		(demand)	(energy)	Factor	(kW)	Equivalent Full Load Hours (EFLH) Estimate	Full Load Hours	Fixture kWh Saved	Fixture kWh Saved	(CFL or LED exit signs	(Sensors only)	
									NONE.		CFLs or Exit Signs	excluding CFLs or Exit Signs	CFL or LED exit sign	Estimate						(EFLH) Estimate		(excluding CFLs or Exit	(excluding CFLs or Exit	only)		
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Lighting For

PROJECT BASIC INFORMATION	PRE-INSTALLATION PRE-INSTALLATION	POST-INSTALLATION POST-INSTALLATION	Energy Calculations	Post Fixture
Line Building Address Floor Area Description Interior or Exterior Predominant Space Type Area Cooling	Pre Fixture Pre Fixture Code Pre Watts / Pre kW / Existing Existing	Post Post Fixture Code Post Watts/ Post kW / Proposed Proposed Inte	Interior Change Exterior Change in Applicant Coincidence Interactive Interactive Pre Controls Post Demand Applicant Prescribed	Annual Annual kWh Annual kWh Cut Sheet
Item Fixture	Qty Fixture Space Control Sensor	Fixture Space Control Sensor in	in Connected Change in Connected Coincidence Factor Factor Factor Factor Controls Savings Equivalent Equivalent	Interior Exterior Saved Saved Number
	(W) (kW) drop down Quantity	Qty (W) (kW) Please enter Quantity	Load Connected Load Factor (demand) (energy) Factor (kW) Full Load Full Load Fill Load Full Full Full Full Full Full Full Ful	Fixture kWh Fixture kWh (CFL or LED (Sensors
	When applicable		(kW) excluding Load (kW) (KW) (CF)	Saved Saved exit signs only)
			CFLs or Exit excluding CFLs CFL or LED Estimate (EFLH) (Signs or Exit Signs exit sign Estimate CI	(excluding (excluding only)
				CFLs or Exit CFLs or Exit
				Signs) Signs)
247	NONE	NONE		
248	NONE	NONE		
249	NONE	NONE		
250	NONE	NONE		
Totals	663 69.45	663 32.12	37.33 44.52	128,262
			37.33	128.262

Note: If your total change in connected load is greater than or equal to 50 kW the cell above will be red. Please see row 4 on the instructions tab for information on adjusting the predominant space type to "Other" and estimating CF and EFLH values.

Project Estimated Annua
Savings Summary

Estimated Annual kWh Savings	128,262
Total Change in Connected Load	37.33

Annual Estimated Cost Savings	\$12,826.20
Annual Operating Hours	3,068
Interior Lighting Incentive @ \$0.05/kWh (excluding CFLs, sensors, or LED exit signs)	\$6,413.10
Exterior Lighting Incentive @ \$0.50/W (excluding CFLs, sensors, or LED exit signs)	\$0.00
Total CFL Incentive @ \$1/screw-in CFL lamp; \$15/hard-wired CFL lamp (includes all CFLs, both interior and exterior)	\$0.00
Total LED Exit Incentive @ \$10/exit sign	\$0.00
Total Lighting Controls Incentive @ \$25/sensor (includes all Lighting Controls, both interior and exterior)	\$0.00

Total Calculated Incentive	\$6,413.10
Total Fixture Quantity excluding CFLs and LED Exit Sign	663
Total Lamp Quantity for Screw-In CFLs	0
Total Lamp Quantity for Hard-Wired CFLs	0
Total Fixture Quantity for LED Exit Signs	0
Total Quantity for Occupancy Sensors	0
Total Quantity for Daylight Sensors	0

Please briefly describe how you estimated your coincidence factor (CF) for facility type "Other" indicated on the Lighting Form tab

Demand Savings (For Internal Use Only)	44.52	



Ohio Edison • The Illuminating Company • Toledo Edison

Project Name:	Kohls #10464					
Site Name:	35906 Detroit Rd.					
Completed by (Name):	Marcello Crestani					
Date completed:	8/25/2010					

Variable Frequency Drive Rebate Form

VFD and Controlled Motor Nameplate DATA											
Motor Application	VFD Manufacturer	VFD Model Number	Unique Motor ID(s)	Motor Location	Enclosure type: TEFC or ODP	Annual Hours of Operation ²	Load Factor (LF) ³	Motor Model Number	Motor HP	Motor Nominal Efficiency	Total Motor Incentive ¹ \$
HVAC	Emerson	HSKD		RTU	TEFC	5356	0.8	Unknown	7.5	80%	1,800
Incentive through 10/11/2011 @ \$30/hp							1,800				

⁽¹⁾ VFD incentives are calculated at a flat rate of \$30 per horsepower controlled, up to a maximum of 500 hp controlled per VFD.

When a single VFD is used to control two motors in a lead/lag (standby, redundant) configuration, use only the horsepower rating of one motor to figure controlled horsepower. For instance, if a single VFD controls two 30hp motors with only one operating at a time, the incentive calculation should be based on 30 hp: 30hp x \$30/hp = \$900.

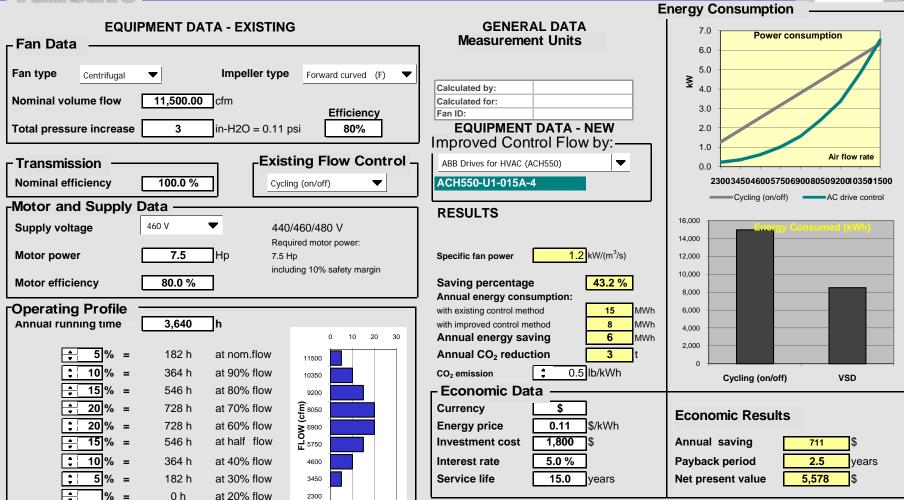
- (2) For VAV fan motors, enter 2790 annual hours of operation. For HVAC pump motors, enter 5520 annual hours of operation. For all other motor usage, please estimate your annual hours of operation and attach an explanation of how you determined this value.
- (3) For all motor and VFD applications, use the Load Factor (LF) default value of 0.80, unless data is available to support the use of a motor-specific LF other than 0.80. Please attach an explanation, including your analysis and/or data used, to support motor-specific LF value.

FanSave 4.1 for HVAC - Fan Data Fan type Centrifugal \blacksquare Nominal volume flow **Total pressure increase −** Transmission **Nominal efficiency** -Motor and Supply Data

100

Energy saving calculator for fans







Mercantile Customer Project Commitment Agreement <u>Cash Rebate Option</u>

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 Kohl's Department Stores, Inc., Taxpayer ID No.13-3357362its 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 believes that it 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 A (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").

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:

- 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, 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. It is expressly agreed that Customer may use any and all energy related and other attributes created from the Customer Energy Project(s) to the extent permitted by state or federal laws or regulations, provided, and to the extent, that such uses by Customer do not conflict with said compliance by the Company.

- 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:

- 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
- A description of all methodologies, protocols, and practices used or proposed to be used in measuring and verifying program results.
- 3. Customer Cash Rebate and Annual Report. 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 Case 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:
 - 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.

- 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:

_Kohl's Department Stores, Inc.
N56 W17000 Ridgewood Drive
Menomonee Falls, WI 53051
Marcy Schaefer
262-703-5329

Marcy.Schaefer@kohls.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.

- KOHUS	Illuminating Company
(Customer)	(Company)
By: _ Marcy Schaefer_	By: Jahr Carps
Title: ENGLGY MGR	Title: VP, Energy Emiciency
Date: 7 28 2061	Date: 11-26-12

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

1/31/2013 7:45:41 AM

in

Case No(s). 13-0044-EL-EEC

Summary: Application to Commit Energy Efficiency/Peak Demand Reduction Programs of The Cleveland Electric Illuminating Company and Kohl's Department Stores, Inc. electronically filed by Ms. Jennifer M. Sybyl on behalf of The Cleveland Electric Illuminating Company and Kohl's Department Stores, Inc.