

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

Case No.: <u>12-2760 - EL-EEC</u>

Mercantile Customer: The Christ Hospital

Electric Utility: **Duke Energy**

Program Title or

Cooling Tower Fan #1 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. 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 <u>ee-pdr@puc.state.oh.us</u>.

Section 1: Mercantile Customer Information

Name: The Christ Hospital

Principal address: 2139 Auburn Avenue Cincinnati. Ohio 45219

Address of facility for which this energy efficiency program applies:

2139 Auburn Avenue Cincinnati. Ohio 45219

Name and telephone number for responses to questions:

Grady Reid, Jr. 513-287-1038

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. (Refer to Appendix A for 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: **Duke Energy**
- 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

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/	THE CUSTOINES	b chicky children y	programme and converse	(CITCCIA CITODO CIT	iai appiy,

✓ 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)).

The following new equipment was installed starting February 2012 and was finished June 2012.

1 VFD on 125 HP Cooling Tower #1

	1 VFD on 125 Hr Cooling Tower #1
	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.
Ene	rgy savings achieved/to be achieved by the energy efficiency program:
1)	If you checked the box indicating that the project involves the early

Annual savings: 284,961 kWh Refer to Appendix B for calculations and supporting documents

Please attach your calculations and record the results below:

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)].

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	l savings:	1	kW	7h	۱
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Please describe any less efficient new equipment that was rejected in favor of the more efficient new equipment.

B)

n calculate the annual savings nent) – (kWh used by higher or saved)]. Please attach your
ent that was rejected in favor
project involves behavioral or scription of how the annual
1 /

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?

June 2012

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

23.9 kW

Refer to Appendix B for calculations and supporting documentation.

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.

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app		. All	2 is selected, the application will not qualify for the 60-day automatic applications, however, will be considered on a timely basis by the				
A)	The	custon	ner is applying for:				
	✓	Optio	on 1: A cash rebate reasonable arrangement.				
	OR						
		-	on 2: An exemption from the energy efficiency cost recovery anism implemented by the electric utility.				
	OR						
		Comr	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 \$11,500.00. Refer to Appendix C for documentation.				
	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: 9.37 Refer to Appendix D for calculations and supporting documents.

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	<u></u> ·
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 \$173,120.

The utility's program costs were \$6,979

The utility's incentive costs/rebate costs were \$11,500.

Refer to Appendix D for calculations and supporting documents.

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.

Refer to Rebate Offer Letter following this application

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.



DUKE ENERGY
Mercantile Self Direct Program
139 East Fourth Street
Cincinnati, OH 45202
513 629 5572 fax

September 25, 2012

Mr. Robert Barnett
The Christ Hospital
2129 Auburn Avenue
Cincinnati Ohio 45219

Subject: Your Application for a Duke Energy Mercantile Self-Direct Rebate

Dear Mr. Barnett:

Thank you for your Duke Energy Mercantile Self Direct rebate application. As noted in the Energy Conservation Measure (ECM) chart on page two, a total rebate of \$11,500.00 has been proposed for your variable frequency drive project completed in the 2012 calendar year. All Self Direct Rebates are contingent upon approval by the Public Utilities Commission of Ohio (PUCO).

At your earliest convenience, please indicate if you accept this rebate by

- providing your signature on page two
- completing the PUCO-required affidavit on page three.

Please return the documents to my attention via fax at 513-629-5572 or e-mail to SelfDirect@Duke-Energy.com. Upon receipt, Duke Energy will submit the necessary documentation to PUCO. Following PUCO's approval, Duke Energy will remit payment.

At Duke Energy, we value your business and look forward to working with you on this and future energy efficiency projects. We hope you will consider our Smart \$aver® incentives, when applicable. Please contact me if you have any questions.

Sincerely,

Grady Reid, Jr

Product Manager

Mercantile Self Direct Rebates

cc: Mike Heath, Duke Energy

Rob Jung, WECC

Ronald Smolinski, Fosdick and Hilmer, Inc.

Please indicate your response to this rebate offer within 30 days of receipt.									
Rebate is accepted. Rebate is declined.									
By accepting this rebate, The Christ Hospital affirms its intention to commit and integrate the energy efficiency projects listed on the following pages into Duke Energy's peak demand reduction, demand response and/or energy efficiency programs.									
Additionally, The Christ Hospital also agrees to serve as joint applicant in any future filings necessary to secure approval of this arrangement as required by PUCO and to comply with any information and reporting requirements imposed by rule or as part of that approval.									
Finally, The Christ Hospital affirms that all application information submitted to Duke Energy pursuant to this rebate offer is true and accurate. Information in question would include, but not be limited to, project scope, equipment specifications, equipment operational details, project costs, project completion dates, and the quantity of energy conservation measures installed.									
If rebate is accepted, will you use the monies to fund future energy efficiency and/or demand reduction projects?									
YES NO									
If rebate is declined, please indicate reason (optional):									
Mels Male Robert Brandt 9/23/12									
Customer Signature Printed Name Date									

Proposed Rebate Amounts

	Total		\$11500.00	
	ECM-1	\$11500.00		
PARTITION	Measure (D	Energy Conservation Measure (ECM)	Rroposed Rebate Amount	

Ohio Public Utilities Commission

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

	Only)
Cas	e No.:
Stat	e of <u>Ohis</u> :
Kell that:	best baruse H., Affiant, being duly sworn according to law, deposes and says
1.	I am the duly authorized representative of: The Church Longottal
	[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.
3.	I am aware of fines and penalties which may be imposed under Ohio Revised Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information. A Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information. A Code Sections 2921.11, 2921.31, 4903.02, 4903.03, and 4903.99 for submitting false information.
	rn and subscribed before me this 16th day of 00th bet, 2 Month/Year
Sign	AMUM Sako, Nothing atture of official administering oath Amelia M. Sako, Nothing Print Name and Title
Мус	commission expires on 11. 9, 2013 ANGELA M. SZABO Notary Public, State of Ohio My Commission Expires December 9, 2013

03800672 01		
CHRIST HOSPITAL		
2139 AUBURN		
CINCINNATI, OH 45219		
Read Date	Days	KWH Usage
8/31/2010	29	4,565,352
9/30/2010	30	4,519,611
10/29/2010	29	3,904,961
12/1/2010	33	4,045,391
1/4/2011	34	3,995,010
2/2/2011	29	3,441,637
3/3/2011	29	3,436,881
4/1/2011	29	3,508,032
5/3/2011	32	4,289,033
6/2/2011	30	4,307,382
7/1/2011	29	4,577,225
8/31/2011	29	4,743,140
Total		49,333,655

Appendix B - Christ Hospital - Energy Savings Achieved

	Baseline Used ¹	Baseline Used ¹ Post Project Actual				Sa	vings		
	Description	Annual kWh	Summer Coincident kW	Description	Annual kWh	Summer Coincident kW	Hours of Operation	Annual kWh	Summer Coincident kW ²
ECM- 1	125 HP Motor on Cooling Tower #1 (No VFD)	654,646	94	Cooling Tower VFD Added	389,398	88.0	6,936	265,248	6.0

Application of 7.43% line losses yields 284,961 kWh savings and 23.9 summer coincident kW. These values may also reflect minor DSMore modeling software rounding error.

Notes: 1. Energy consumption baseline, demand baseline and post-project energy consumption basis are outlined in the following pages (see following Calcuation tabs).

2 This value is the difference between the maximum kW demand before implementation and the maximum kW demand after implementation, both of which occur in May and June. The maximum kW demand savings in any month is 45 kW, which occurrs in both December and January

CALCULATION INPUT DATA

IΔ	NI 2	01	21	17	n

JAN 2012 V2.0						_
Salesforce Oppo	rtunity Name	Christ Hospital - VFD Tower	Application #	12-495	Rev.	0
Project Name	Christ Hospital - V	FD Tower	_		State	ОН
ECM	1				•	

Note: all data from the "Part2-Self-Direct-Custom-VFD-App.xlsx" file, except as otherwise noted

Driven Equipment	Name	Cooling Tower #1	Type Fan
Quantity		1	
Brake HP (BHP) at Full Load		120.7	
Nameplate HP		125.0	

Current Equipment Operation without VFD - Input values for ONE driven equipment and its motor.

			BHP of	Motor			Motor													
			Driven	output HP			Electrical													
			Equipment	as % of			Power													
% of Full I	Load	BHP of Driven	@ Actual	Nameplate	Motor Eff	ficiency @	Draw			N	/lonth	ly hour	s that	each	moto	r runs				Yearly
E	% of Full Load BHP of Driver Equipment		Load (BHP)	HP	Motor Out	put HP (%)	(kw)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total (hr)
1	.00	%	120.7	97%	95.4	%	94.38	480	228	408	684	744	720	744	744	720	744	444	276	6,936
N	lot R	Running	0.0	0%	NA	%	0.00	264	444	336	36	0	0	0	0	0	0	276	468	1,824
							Totals	744	672	744	720	744	720	744	744	720	744	720	744	8,760

Proposed Equipment Operation with VFD - Input values for ONE driven equipment and its motor.

Efficiency	of VFD			96	%

		BHP of Driven Equipment	Motor output HP as % of			Motor Electrical Power													
% of Full Load	d BHP of Driven	@ Actual	Motor	Motor Eff	iciency @	Draw			N	/lonth	ly hou	s that	each	moto	r runs				Yearly
Equi	pment	Load (BHP)	Nameplate	Motor Out	put HP (%)	(kw)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total (hr)
100	%	120.7	97%	95.4	%	94.38	0	0	0	0	0	0	0	0	0	0	0	0	0
90	%	108.6	87%	95.4	%	84.95	0	0	0	0	36	36	0	0	0	0	0	0	72
80	%	96.6	77%	95.4	%	75.51	0	0	0	0	168	324	612	504	228	0	0	0	1,836
70	%	84.5	68%	95.4	%	66.07	0	0	24	108	132	300	96	204	168	84	0	0	1,116
60	%	72.4	58%	95.4	%	56.63	0	60	60	156	60	60	24	36	192	96	48	0	792
50	%	60.4	48%	94.4	%	47.69	12	12	12	132	60	0	12	0	120	252	36	12	660
40	%	48.3	39%	92.4	%	38.98	0	0	48	96	144	0	0	0	12	216	96	0	612
30	%	36.2	29%	90.5	%	29.85	468	156	264	192	144	0	0	0	0	96	264	264	1,848
20	%	24.1	19%	85.6	%	21.04	0	0	0	0	0	0	0	0	0	0	0	0	0
10	%	12.1	10%	74.5	%	12.09	0	0	0	0	0	0	0	0	0	0	0	0	0
Not R	Running	0.0	0%	NA	%	0.00	264	444	336	36	0	0	0	0	0	0	276	468	1,824
						Totals	744	672	744	720	744	720	744	744	720	744	720	744	8,760

DETAILED CALCULATIONS

J	A	١	١	2	0	1	2	٧	<u> 2</u>	٠.	0	

Salesforce Opportunity Name Christ Hospital - VFD Tower
Project Name Christ Hospital - VFD Tower
ECM 1

Application # 12-495 MSD

Rev. 0 State OH

1. BASE CONDITION OPERATION without VFD

						Energy	Demand (kw	ı)					
_	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Maximum
100%	94	94	94	94	94	94	94	94	94	94	94	94	94
Maximum	94	94	94	94	94	94	94	94	94	94	94	94	94

						Energy	Usage (kw-hi	r)					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
100%	45,304	21,520	38,509	64,559	70,222	67,956	70,222	70,222	67,956	70,222	41,906	26,050	654,646
Total	45,304	21,520	38,509	64,559	70,222	67,956	70,222	70,222	67,956	70,222	41,906	26,050	654,646

2. PROPOSED OPERATION with VFD

% of Full Load Capacity of						Energy	Demand (kw	·)					
Driven Equipment	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Maximum
		ren		•	•			Aug	•	OCC			IVIAAIIIIUIII
100%	0	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	88	88	0	0	0	0	0	0	88
80%	0	0	0	0	79	79	79	79	79	0	0	0	0
70%	0	0	69	69	69	69	69	69	69	69	0	0	69
60%	0	59	59	59	59	59	59	59	59	59	59	0	59
50%	50	50	50	50	50	0	50	0	50	50	50	50	50
40%	0	0	41	41	41	0	0	0	41	41	41	0	41
30%	31	31	31	31	31	0	0	0	0	31	31	31	31
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum	50	59	69	69	88	88	79	79	79	69	59	50	88

DETAILED CALCULATIONS

					ា	

Rev. 0 State OH

% of Full Load Capacity of						Energy	Usage (kw-h	r)					
Driven Equipment	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	-		-	•	•		-	Aug	·	000		Dec	
100%	0	0	0	U	0	0	0	U	0	U	0	U	0
90%	0	0	0	0	3,185	3,185	0	0	0	0	0	0	6,371
80%	0	0	0	0	13,214	25,484	48,136	39,641	17,933	0	0	0	144,407
70%	0	0	1,652	7,433	9,084	20,646	6,607	14,040	11,562	5,781	0	0	76,805
60%	0	3,539	3,539	9,202	3,539	3,539	1,416	2,124	11,326	5,663	2,832	0	46,720
50%	596	596	596	6,558	2,981	0	596	0	5,961	12,519	1,788	596	32,788
40%	0	0	1,949	3,898	5,847	0	0	0	487	8,770	3,898	0	24,849
30%	14,551	4,850	8,208	5,970	4,477	0	0	0	0	2,985	8,208	8,208	57,458
20%	0	0	0	0	0	0	0	0	0	0	0	0	0
10%	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15,147	8,986	15,944	33,060	42,328	52,855	56,755	55,804	47,270	35,718	16,726	8,804	389,398

SECTION 4 - SAVINGS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly
Energy Demand (kw)	45	35	26	26	6	6	16	16	16	26	35	45	45
Energy Use (kw-hr)	30,157	12,534	22,564	31,498	27,894	15,101	13,467	14,417	20,687	34,503	25,180	17,246	265,248

Appendix C - Christ Hospital Cash Rebate Calculation

VFD

Measure	Quantity	Cash Rebate Rate	Cash Rebate
		50% of incentive that would be offered by	
Cooling Tower VFD Added	1	the Smart \$aver Custom program	\$11,500

Appendix D -Christ Hospital - UCT Value

VFD

Measure	Total Avoided Cost	Program Cost	Incentive	Quantity	Measure UCT
Cooling Tower VFD Added	\$173,120	\$6,979	\$11,500	1	9.37
Totals	\$173,120	\$6,979	\$11,500	1	

Total Avoided Supply Costs	\$173,120	Aggregate Application UCT	9.37
Total Program Costs	\$6,979		
Total Incentive	\$11,500		

Ohio Mercantile Self Direct Program

Application Guide & Cover Sheet

Questions? Call 1-866-380-9580 or visit www.duke-energy.com.

Email this form along with <u>completed Mercantile Self Direct Prescriptive or Custom applications</u>, proof of payment, energy savings calculations and spec sheets to <u>SelfDirect@Duke-Energy.com</u>. You may also fax to 1-513-629-5572.

program. Please indicate magnetic a single Duke E	nercantile qualification: Energy Ohio account	0 kWh annually are eligible to the courth other utilities may be courth	for the Mercantile Self Direct
Please list Duke Energy ac other utilities as required):	count numbers below (attac	ch listing of multiple accounts	s and/or billing history for
Account Number	Annual Usage	Account Number	Annual Usage
	1 1 1 1 3 1		
Energy Smart \$aver® Cust were installed more than 90 Energy Prescriptive rebate Self Direct Program require Smart \$aver program must determine which Self Direct application forms in conjunare listed, please refer to the for a Self Direct Custom relinclude detailed analysis of	com Incentive. Self Direct income and a community of the	rojects that may be Prescrip stom process. Use the table). Apply for Self Direct proje Where Mercantile Self Direct cation. If your measure is no oplications, like Smart \$aver et energy usage and project of	escriptive measures that previously received a Duke tive in nature under the on page two as a guide to cts using the appropriate
Please check each box to i	ndicate completion of the fo	llowing program requiremen	ts:
All sections of appropriate application(s) are completed	□ Proof of payment.*	Manufacturer's Spec sheets	Energy model/calculations and detailed inputs for Custom applications

^{*} If a single payment record is intended to demonstrate the costs of both Prescriptive & Custom projects, please include an additional document with an estimated breakout of costs for each Prescriptive and Custom energy conservation measure.

Application Type	Replaced equipment at end of lifetime or because equipment failed**	Replaced fully operational equipment to improve efficiency***	New Construction				
	MCD Custom Dort 4	MSD Prescriptive Lighting ☐	MSD Prescriptive Lighting ☐				
Lighting	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐	MSD Custom Part 1 ☐ Custom Lighting Worksheet ☐				
Heating & Cooling	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Heating & Cooling				
Ticating & Gooinig	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐				
Window Films, Programmable Thermostats, & Guest Room Energy Management Systems	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐	MSD Prescriptive Heating & Cooling	MSD Custom Part 1 ☐ MSD Custom General and/or EMS Worksheet(s) ☐				
Lighting Heating & Cooling Window Films, Programmable Thermostats, & Guest Room Energy Management	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Chillers & Thermal Storage □				
Storage	MSD Custom General Worksheet	MSD Custom General Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐				
Motors & Bumps	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Motors, Pumps & Drives □				
Motors & Fullips	MSD Custom General Worksheet ☐	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐				
VEDe	Not Applicable	MSD Prescriptive Motors, Pumps & Drives □	MSD Custom Part 1 ⊠				
VFDS	Not Арріісавіе	MSD Custom Part 1 ☐ MSD Custom VFD Worksheet ☐	MSD Custom VFD Worksheet ⊠				
	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Food Service ☐				
Food Service	MSD Custom General Worksheet	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐				
	MSD Custom Part 1 ☐	MSD Custom Part 1 ☐	MSD Prescriptive Process ☐				
Air Compressors	MSD Custom Falt 1 ☐ MSD Custom Compressed Air Worksheet ☐	MSD Custom Compressed Air Worksheet	MSD Custom Part 1 ☐ MSD Custom Compressed Air Worksheet ☐				
	MSD Custom Part 1 ☐	MSD Prescriptive Process ☐	MSD Custom Part 1 ☐				
Process	MSD Custom General Worksheet	MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐	MSD Custom General Worksheet				
	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐	MSD Custom Part 1 ☐ MSD Custom EMS Worksheet ☐				
Chiller Tune-ups		MSD Prescriptive Chiller Tune-ups					
		MSD Custom Part 1 ☐ MSD Custom General Worksheet ☐					

^{**} Under the Self Direct program, failed equipment and equipment at the end of its useful life are evaluated differently than early replacement of fully functioning equipment. All equipment replacements due to failure or old age will be evaluated via the Custom program.

*** Please ensure that you include the age of the replaced equipment for measures classified as "Early Replacement" in your application as well as the estimated date that you would have otherwise replaced the existing equipment if you had not chosen a more energy efficient option.

**** Behavioral energy efficiency and demand reduction projects must be both measurable and verifiable. Provide justification with your application.



Proposed energy efficiency measures may be eligible for Self-Direct Custom rebates if they clearly reduce electrical consumption and/or demand as compared to the appropriate baseline.

Before you complete this application, please note the following important criteria:

- Submitting this application does not guarantee a rebate will be approved.
- Rebates are based on electricity conservation only.
- Electric demand and/or energy reductions must be well documented with auditable calculations.
- Incomplete applications cannot be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, beginning on page 6.

Notes on the Application Process

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact your Duke Energy Ohio, Inc account manager or the Duke Energy Smart \$aver® team at 1-866-380-9580.

Every application must include calculations of the baseline electrical usage and the electrical usage of the proposed high-efficiency equipment/system. Monthly calculations are best. You, the Duke Energy Ohio customer, or your equipment vendor / engineer should perform these calculations and submit them to Duke Energy for review. We strongly encourage the use of modeling software (such as eQuest or comparable) for complex projects.

Upon receipt of your application, an acknowledgement email will be sent to you with an estimated response time based on an initial assessment of your application. The application review may include some communication to resolve any questions about the project or to request additional information. Applications that are received complete without missing information have a faster review time.

There are two ways to submit your completed application.

Email your scanned form to: <u>SelfDirect@duke-energy.com</u>

Or, fax your form to 513-629-5572

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1. Contact Information (Required)

Duke Energy Customer Contact Information														
Company Name	The Christ Hospit	Γhe Christ Hospital												
Address	2139 Auburn Ave.													
Project Contact	Robert Barnett	Robert Barnett												
City	Cincinnati		State	Ohio		Zij	o Code	45219						
Title	Manager Plant Op	erations & Main	tenance											
Office Phone	(513)585-2964	Mobile Phone	(513)3	(513)310-3392			(513)58	35-3913						
E-mail Address	Robert.Barnett@t	Robert.Barnett@thechristhospital.com												

Equipment Vende	Equipment Vendor / Contractor / Architect / Engineer Contact Information													
Company Name	Fosdick & Hilmer,	Inc.												
Address	309 Vine St.													
City	Cincinnati		State	Ohio	Zip Co	de	45202							
Project Contact	Ronald Smolinski													
Title	Engineer													
Office Phone	(513)419-4216	Mobile Phone	(513)	319-9620	Fax	(51	3)241-3659							
E-mail Address	rsmolinski@fheng	rsmolinski@fheng.com												
Describe Role	Engineer for chille	er plant energy c	alculatio	ons, compo	nent sele	ectio	n, and design							

Payment Information											
Payee Legal Company											
Name (as shown on											
Federal income tax return):											
Mailing Address											
City		State	Zip Code								
Type of organization (check one) Individual/Sole Proprietor Corporation Partnership											
Unit of Government I	Non-Profit (non-corporat	ion)									
Payee Federal Tax ID # of Le	egal										
Company Name Above:											
Who should receive incentive	e payment? (select one)	Custo	omer 🗌 Vendor (Customer								
			must sign below)								
If the vendor is to receive page	yment, please sign belo	W:									
I hereby authorize payment of	of incentive directly to ve	endor:									
Customer Signature		Date_	/ (mm/dd/yyyy)								

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2. Project Information (Required)

A.	Please indicate project type: ☐ New Construction ☐ Expansion at an existing facility ☐ Replacing equipment due to equipment failure ☐ Replacing equipment that is estimated to have remaining useful life of 2 years or less ☐ Replacing equipment that is estimated to have remaining useful life of more than 2 years ☐ Behavioral, operational and/or procedural programs/projects
B.	Please describe your project, or attach a detailed project description that describes the project. Add a cooling tower and variable speed drive.
C.	When did you start and complete implementation? Start date 02/2012 (mm/yyyy) End date 06/2012 (mm/yyyy)
D.	Are you also applying for Self-Direct Prescriptive incentives and, if so, which one(s) ¹ ?
E.	Please indicate which worksheet(s) you are submitting for this application (check all that apply): Lighting Variable Frequency Drive (VFD) Compressed Air Energy Management System (EMS) General (for projects not easily submitted using one of the above worksheets)
F.	Please tell us if there is anything about your electrical energy projections (either for the baseline or the proposed project) that you are either unsure about or for which you have made significant assumptions. Attach additional sheets as needed.
the	equired: Attach a supplier or contractor invoice or other equivalent information documenting e Implementation Cost for each project listed in your application. (Note: self-install costs not be included in the Implementation Cost)

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¹ If your project involves some equipment that is eligible for prescriptive incentives and some equipment that is likely eligible for custom incentives, and if it is feasible to separate the equipment for the energy analysis, then the equipment will be evaluated separately. If it is not feasible to separate the equipment for analysis, then the equipment will be evaluated together in the custom application.



3. Signature (Required – must be signed by Duke Energy customer)

Customer Consent to Release of Personal Information

I, (insert name) Robert , do hereby consent to Duke Energy disclosing my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number to its subcontractors solely for the purpose of administering Duke Energy Ohio's Mercantile Self-Direct Program. I understand that such subcontractors are contractually bound to otherwise maintain my Duke Energy Ohio, Inc Account Number and Federal Tax ID Number in the strictest of confidence.

I realize that under the rules and regulations of the public utilities commission, I may refuse to allow Duke Energy Ohio, Inc to release the information set forth above. By my signature, I freely give Duke Energy Ohio, Inc permission to release the information designated above.

Application Signature

I certify that I meet the eligibility requirements of the Duke Energy Ohio, Inc Mercantile Self Direct Custom Incentives Program and that all information provided within this application is correct to the best of my knowledge. I agree to the terms and conditions set forth for this program. I certify that the numbers, energy savings, and responses shown on this form are correct. Further, I certify that the taxpayer identification number is current and correct. I am not subject to backup withholding because: (a) I am exempt from backup withholding; or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends; or (c) the IRS has notified me that I am no longer subject to backup withholding. I am a U.S. citizen (includes a U.S. resident alien).

Duke Energy Ohio, Inc Customer Signature

Print Name Robert & Bains

Date 9///2



Checklist for completing the Application

INCOMPLETE APPLICATIONS WILL RESULT IN DELAYS IN DUKE ENERGY PROCESSING YOUR APPLICATION AND NOTIFYING YOU CONCERNING AY REBATES. Before submitting the application and the required supplementary information, use the following checklist to ensure that your application is complete and the information in the application is accurate. (Note: this checklist is <u>for your use only</u> – do not submit this checklist with your application)

Section No. & Title	Have You:
Contact Information	 ☐ Completed the contact information for the Duke Energy customer? ☐ Completed the contact information for the equipment vendor / project engineer that can answer questions about the technical aspects of the project, if that is a different person than above?
2. Project Information	 Answered the questions A-E, including providing a description of your project. Completed and attached the lighting, compressed air, VFD, EMS and/or General worksheet(s)?
3. Signature	☐ Signed your name? ☐ Printed your name? ☐ Entered the date?
Supplementary information (Required)	☐ Attached a supplier or contractor's invoice or other equivalent information documenting the Implementation Cost for projects listed in your application? (Note: self-install costs cannot be included in the Implementation Cost) ☐ (If submitting the General Worksheet) attached calculations documenting the energy usage and energy savings for each project listed in your application?

If you have any questions concerning how to complete any portion of the application or what supplementary information is required, please contact:

- your Duke Energy account manager or,
- the Duke Energy Smart \$aver® team at 1-866-380-9580.

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Instructions/Terms/Conditions

Note: Please keep for your records- do not submit with the application

- Energy service companies or contractors may assist in preparing the application, but an authorized representative of the customer must sign this application to be eligible to participate in the Mercantile Self Direct Program. Completion of this application does not guarantee the approval of a Self Direct Custom Rebate.
- 2. Once all documentation requested in this application is received by *Duke Energy Ohio, Inc,* and any follow-up information requested by *Duke Energy* is received, the rebate amount for each Energy Conservation Measure (ECM) will be communicated to the customer. The rebate amount will be based on ECM energy savings and ECM incremental installation cost.
- 3. All rebates require approval by the Public Utilities Commission of Ohio. Duke Energy Ohio, Inc will submit an application for rebate on the customer's behalf upon customer attestation to program terms, conditions and requirements as outlined in the rebate offer letter and upon customer completion of attestation documents required by the Public Utilities Commission of Ohio.
- 4. *Duke Energy Ohio, Inc* will issue a Self Direct Custom Rebate check, based on the approved rebate amount for each ECM, upon receiving approval from the Public Utilities Commission of Ohio. *Duke Energy* Ohio, Inc does not guarantee PUCO approval.
- 5. With the application, the customer must provide a list of all sites where the ECMs were installed. *Duke Energy Ohio, Inc* requests that sites of similar size, hours of operation and energy consuming characteristics be grouped together in one application for the determination of the rebate amount. The application should identify the site where each unique ECM was installed.
- 6. Based on the information submitted with the application and the information gathered both before and after the initial installation of the ECM, *Duke Energy Ohio, Inc* will calculate the rebate amount for each ECM.
- 7. Duke Energy Ohio, Inc may conduct random site inspections of a sample of the locations where the ECMs are installed to verify installation and operability of the ECMs and to obtain information needed to calculate the Approved Incentive Amount.
- 8. Customers are encouraged to retain copies of all forms, invoices and supporting documentation for their records.
- 9. Approved rebates are valid for 6 months from the date communicated to the customer by Duke Energy Ohio, Inc, subject to the expiration of measure eligibility based on project completion dates and application submission deadlines as defined by PUCO. Customers are encouraged to execute their rebate offer contracts and PUCO-required affidavits promptly to ensure eligibility is not forfeited.

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- 10. *Duke Energy Ohio, Inc* reserves the right to recover all unrecoverable costs associated with the project approval if the customer decides not to execute the rebate contract, after the project is approved by *Duke Energy Ohio, Inc.*
- 11. Projects financially supported by other funding sources will be evaluated on a case-by-case basis for potential partial funding from *Duke Energy Ohio, Inc.*
- 12. Participants must be *Duke Energy Ohio, Inc* nonresidential, mercantile customers with the project sites in the *Duke Energy Ohio, Inc* service territory.
- 13. Customers or trade allies may not use any *Duke Energy* logo without prior written permission.
- 14. Only trade allies registered with *Duke Energy* are eligible to participate.
- 15. All equipment must be new. Used or rebuilt equipment is not eligible for incentives. All old existing equipment must be removed on retrofit projects.
- 16. Disclaimers: Duke Energy Ohio, Inc.
 - a. does not endorse any particular manufacturer, product or system design within the program;
 - b. will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives;
 - c. does not expressly or implicitly warrant the performance of installed equipment. (Contact your contractor for details regarding equipment warranties.);
 - d. is not responsible for the proper disposal/recycling of any waste generated or obsolete or old equipment as a result of this project;
 - e. is not liable for any damage caused by the installation of the equipment nor for any damage caused by the malfunction of the installed equipment; and
 - f. reserves the right to change or discontinue this program at any time. The acceptance of program applications is determined solely by *Duke Energy Ohio, Inc.*

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The VFD Worksheet is part 2 of the application. Do not submit this file without submitting a completed Part1 Custom Application document file, which can be found at www.duke-energy.com.

Before you complete this application, please note the following important criteria:

- Submitting this application does not guarantee an incentive will be approved.
- · Rebates are based on electricity conservation only.
- · Electric demand and/or energy reductions must be well documented with auditable calculations.
- Incomplete applications will not be reviewed; all fields are required.

Refer to the complete list of Instructions and Disclaimers, found in the Mercantile Self Custom Application Part 1 document.

Please enter your information and data into the cells that are shaded.

Cells in white are locked and cannot be written over.

Duke Energy Customer Contact Information (Match the information in Application Part 1):

Name Robert Barnett
Company The Christ Hospital

Equipment Vendor / Project Engineer Contact Information

Name Ronald Smolinski
Company Fosdick & Hilmer, Inc.

Location of Proposed VFD Project

Site Name Chiller Plant
Electric Account Number(s) 0380-0672-01-4
Site Address 2139 Auburn Ave.

 $Before\ proceeding\ with\ the\ custom\ application,\ please\ verify\ that\ your\ project\ is\ not\ on\ the\ Self-Direct\ Prescriptive\ application.$

The prescriptive incentive applications can be found at:

 $\underline{\text{http://www.duke-energy.com/ohio-large-business/smart-saver/mercantile-self-direct.asp}}$

Prescriptive rebate amounts are pre-approved.

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Use one worksheet for each type of motor or fan that is being evaluated for a VFD

Driven Equipment

Nameplate HP

Name

Quantity
Brake HP (BHP) at Full Load (see note 1)

Cooling Tower #1

120.7

125.0

Type Fan

App No.

Current Equipment Operation without VFD - Input values for ONE driven equipment and its motor.

% of F		BHP of Driven Equipment	Motor output HP as % of	Moto Efficience	ncy	Motor Electrical Power	Annual hours that													
Driven @ Actual Nameplate Output HP Draw				motor runs			Mont	hly ho	ours th	at ea	ch mo	tor ru	ns (see	note 3)			Yearly			
Equipm	ent	Load (BHP)	HP	(%)		(kw)	(see note 2)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total (hr)
100	%	120.7	97%	95.4	%	94.38		480	228	408	684	744	720	744	744	720	744	444	276	6,936
	%	0.0	0%		%	#DIV/0!														0
	%	0.0	0%		%	#DIV/0!														0
	%	0.0	0%		%	#DIV/0!														0
Not Run	ning	0.0	0%	NA	%	0.00	8,760	264	444	336	36	0	0	0	0	0	0	276	468	1,824
					Totals	8,760	744	672	744	720	744	720	744	744	720	744	720	744	8,760	

Proposed Equipment Operation with VFD - Input values for ONE driven equipment and its motor.

Efficiency of VFD 96 %

		BHP of	Motor	Mote	or	Motor														
% of F	ull	Driven	output HP	Efficie	ncy	Electrical	Annual													
Load BH	P of	Equipment	as % of	@ Mo	tor	Power	Power hours that													
Drive	n	@ Actual	Motor	Output	t HP	Draw	motor runs			Mont	hly ho	ours th	at ea	ch mo	tor ru	ns (see	note 3)			Yearly
Equipm	ent	Load (BHP)	Nameplate	(%)	(%) (kw) (see note 2)			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total (hr)
100	%	120.7	97%	95.4	%	94.38		0	0	0	0	0	0	0	0	0	0	0	0	0
90	%	108.6	87%	95.4	%	84.95		0	0	0	0	36	36	0	0	0	0	0	0	72
80	%	96.6	77%	95.4	%	75.51		0	0	0	0	168	324	612	504	228	0	0	0	1836
70	%	84.5	68%	95.4	%	66.07		0	0	24	108	132	300	96	204	168	84	0	0	1116
60	%	72.4	58%	95.4	%	56.63		0	60	60	156	60	60	24	36	192	96	48	0	792
50	%	60.4	48%	94.4	%	47.69		12	12	12	132	60	0	12	0	120	252	36	12	660
40	%	48.3	39%	92.4	%	38.98		0	0	48	96	144	0	0	0	12	216	96	0	612
30	%	36.2	29%	90.5	%	29.85		468	156	264	192	144	0	0	0	0	96	264	264	1848
20	%	24.1	19%	85.6	%	21.04		0	0	0	0	0	0	0	0	0	0	0	0	0
10	%	12.1	10%	74.5	%	12.09		0	0	0	0	0	0	0	0	0	0	0	0	0
Not Run	ning	0.0	0%	NA	%	0.00	8,760	264	444	336	36	0	0	0	0	0	0	276	468	1,824
						Totals	8,760	264	444	336	36	0	0	0	0	0	0	276	468	1,824

Detailed Project Description Attached?

Yes (Required)

1 Brake HP (BHP) at Full Load

The "full load" operating condition is the condition at which the driven equipment operates for the base condition (i.e., without the VFD)

2 Annual hours that motor runs

If the % operating loads do not vary between months, then enter the total annual hours that the motor will run at full load, partial load and hours not operating.

3 Monthly hours that each motor runs

If the % operating loads vary between months (due to weather conditions or seasonal load), fill in the expected hours that the motor will run each month at full load, partial load and hours not operating.

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App No.	0
Rev.	0

Operating Hours (see note 4)

							Weeks of	
	Weekday		Saturday		Sunday		Use in Year	Total Annual
24 x 7	Start Hour	End Hour	Start Hour	End Hour	Start Hour	End Hour	(see note 5)	Hours of Use

Energy Savings

010						
	Existing (no VFD)	Proposed (VFD)	Savings			
				Describe how energy numbers were calculated		
Annual Electric Energy	654,620 kWh	373,832 kWh	280,788 kWh			
Electric Demand (kilowatts)	0 kW	0 kW	0 kW			
Calculations attached	Yes	Yes				

Simple Payback

Average electric rate (\$/kWh) on the applicable ac	\$0.07			
Estimated annual electric savings	\$18,251			
Other annual savings in addition to electric savings	\$0.00			
Incremental cost to implement the project (equipr	\$57,486.00			
Copy of vendor proposal is attached (see note 8)	Yes			
Simple Electric Payback in years (see note 9)	3.149708599	Total Payback in years		3.149708599

4 Operating Hours

Describe when the equipment is typically used. If the project is proposed for more than one site, provide any variations in operating hours between the sites on a separate sheet.

5 Weeks of Use in Year

If the equipment is not in use 52 weeks during the year (for example, during holiday or summer break), provide an explanation of when usage is not expected and why:

6 Average electric rate (\$/kWh)

If you do not know your average electric rate, use \$0.10/kWh.

7 Incremental cost to implement the project

Costs exclude self installation costs.

Retrofit projects, incremental cost is the total cost of the proposed project. New construction or where the existing equipment must be replaced anyway, then incremental cost is the premium of the proposed high efficiency project over baseline.

8 Copy of vendor invoice is attached

Vendor invoices detailing costs of the project are always required.

New construction projects or where the existing equipment must be replaced anyway, vendor proposal of baseline must also be attached.

9 Simple Electric Payback

If the simple payback on the project is less than 1 year, the rebate structure is affected.

Please check that the electric rate is accurate based on history.

DUKE REBATE PROPOSAL

August 15, 2012

August 30, 2012 (Rev1)

This proposal to Duke Energy consists of:

- 1. This document explains the difference in control strategy from constant speed to variable speed fan design and the calculations that support the energy savings calculations.
- 2. The Part 1 and Part 2 Application forms for the Mercantile Self Direct program.

The bottom line is that the net <u>annual electrical energy savings</u> are estimated at \$18,251.21. We believe that the actual savings will be greater, but the engineering cost to wring out every last dollar would not result in any savings for the Hospital.

The analysis presented herein describes two modes of operation: 1. constant speed fan, plus base loading the new tower; 2. Variable speed operation, sharing the same speed signal with the other tower fans. There has been a belief by certain staff members (but not all) at the Hospital that staging on fans, as needed, would result in the lowest power consumption due to a smaller quantity of fan motors in operation. Part of the purpose for this analysis is to resolve this argument by providing the rationale for this specific chiller plant.

- 1. Constant speed operation for the new tower The new tower will operate alongside the other four towers, but one plan for operating the new tower was to stage it on first, then add a tower for each additional chiller. The variable speed towers designated #2 through #5, have variable speed fans and all currently receive the same signal.
- 2. Variable speed operation for all 5 towers All five towers have variable speed fans and all receive the same signal, per the alternate operating plan. Fans are turned off when the fan reaches minimum allowable speed of 25% (manufacturer's requirement). This is how the controls are currently configured; however, the Hospital wants a definitive calculation that will demonstrate that this method of operation will result in saves energy and saved money.
- 3. One assumption is that this mode of operation does not become effective until one chiller of a 100 ton size, or larger, is energized. During free cooling operation, and until at least 100 tons of cooling load is present, the cooling hours are excluded for both modes of analysis.

There is an Excel spreadsheet that accompanies this proposal, entitled: "CT-1 Loads July2010 to June2011_Duke Rebate Calcs.xlsx". This spreadsheet tallies 730 data points (2 per day) that were collected from the Hospital's Building Automation System. The data file identifies which chillers were energized during a recent 12 month period. The reason we used this data, rather than rely on historical weather data, is due to the unique way in which many hospitals operate. In TCH's case, extra chillers are kept on line at very low capacity so that extra cooling will immediately be available should a chiller inadvertently shut down. Furthermore, and in keeping with operating sequences that date back decades, almost all of the equipment is constant speed. This results in "shallow" delta temperatures at part load, due to excess water flow and air flow.

We felt that this type of part-load operation cannot be simulated in any "off-the-shelf" software package. In addition, the big savings for TCH will be to add as many VFDs as possible to compensate for having so many pieces of equipment operating at very low loads (40-50%) for 1,000s of hours. This same philosophy applies to the pumps and chillers which are the focus of additional Duke Energy Incentive applications we intend to process.

There was also a point made by the evaluator that 2011 was an abnormally hot year and that the data should be normalized. We certainly recognize that June 2011 had 31 (14%) more cooling degree days than normal, but our data spans portions of two summers, both of which were warmer than usual due possibly to global warming.

Regardless, our calculations compare that the cost of operating at constant speed versus operating at variable speed, for actual circumstances. The calculations use the same data on the plus side, as on the minus side. So we feel that other factors such as normalizing data are small relative to the savings that could have been had during those 12 months.

In summary....

The cost of electricity to operate the tower per sequence #1 above, less the cost of electricity to operate the tower per sequence #2, is the net savings described above. This translates into a rebate request of \$9,125.00.00, based on 50% of first year electrical savings.

The total installed cost for the electrician (Mayers Electric) is \$52,260, plus 10% engineering fee, for a total of \$57,486.00.

MAYERS ELECTRIC COMPANY

INCORPORATED

ELECTRICAL CONTRACTORS * COMMERCIAL and INDUSTRIAL WIRING

4004 Erie Court, Cincinnati, OH 45227 Phone (513) 272-2900 FAX (513) 272-2904

August 29, 2012

Fosdick & Hilmer 309 Vine St. Suite 50 Cincinnati, OH 45202

Attn. Gerry Donahue

RE: The Christ Hospital Cooling Tower

Dear Gerry,

Per your request, we are pleased to submit a proposal for the electrical work associated with providing a Square D VFD for the new cooling tower at The Christ Hospital.

Qualifications:

- Work to be completed during normal working hours.
- Work to be completed per Christ Hospital's Infectious Disease Policies.

Thank you for allowing us the opportunity to submit a proposal for this work. If you have any questions, please advise.

Sincerely,

Mayers Electric Company, Inc.

Bill Puthoff Project Manager

FOSDICK & HILMER, INC.

CONSULTING ENGINEERS

309 VINE STREET, SUITE 50 CINCINNATI, OHIO 45202 (513) 241-5640

TO:	Messer Constru		DATE CLIENT PROJECT	04.30.12			
	2223T Auburn			CLIENT	Christ Hospital Cooling Tower Upgrade		
	Cincinnati, OH			PROJECT			
ATTN:	Sue Millard				PROJECT#	CHR01.280900	_
WE ARE	SENDING VIA:						
	U.S. MAIL UPS - NEXT DAY HAND DELIVERED COURIER FAX PICK UP X EMAIL FTP RECEIVED WITH:		X SHOP DRAWINGS DRAWINGS PRINTED MATERI SPECIFICATIONS OTHER			FOR YOUR USE AS REQUESTED FOR YOUR REVIEW	
				YOUR LET	TER OF	_	
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Revision Number: 0

REVIEWED FOR SUBMITTAL Messer

Submittal Number: 16000-01

Messer Job #: 12-2420-07

Date: ____ 4.26.12

Reviewed By:

Quote Number: 2

SMM

Quota

Project Name: CHRIST HOSPITAL-COOLING TOWER

Project Sub-Name:

Q2C Number: 31421375

Project Location: CINCINNATI, OH Quote Name: COPY OF QUOTE1

Through Addenda Number: 0

Bid Date: 04/16/2012 Consultant / Specifier: Contractor / Installer:

Sales Representative: PHIL POSTOLSKI

Terms & Conditions

This Quotation is subject to Schneider Electric USA, Inc.'s published Terms and Conditions

Payment Terms: STANDARD

Billing Type(s):

Currency:

US DOLLARS

Quote Markings

RECEIVED 04.26.12

NO EXCEPTIONS NOTED

EXCEPTIONS NOTED REVISE AND SUBMIT FILE COPY

RETURN FOR CORRECTION REVISE AND RESUBMIT

REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM CONTRACT REQUIREMENTS

FOSDICK & HILMER, INC.

309 VINE STREET, SUITE 50 CINCINNATI, OHIO 45202

 Q2C Number: 31421375
 Quote Number: 2
 Revision Number: 0

 Project Name: CHRIST HOSPITAL-COOLING TOWER
 Quote Name: COPY OF QUOTE1

Item Catalog Number / Details Qty. No. 003-00 1 Designation: mcccp1 Model 6 LVMCC Model 6 MCC - Standard Package System Voltage: 480V 3PH 3W 60Hz Max Available Fault Current (RMS) - 65kA Control Power - 120Vac 1/4" x 1" Horizontal Ground Bus, Tin Plated Copper Class 1 Type B Wiring 1200A Tin Plated Copper Horizontal Bus 20" Deep Construction General Purpose Type 1 Enclosure 65kA Bus Withstand Rating Master Nameplate Engraved with Black Surface/White Letters Standard Exterior Paint ANSI 49 Equipment Mounting Height 72" Manual Vertical Bus Shutters **Rodent Barriers** Engineered To Order (ETO) 2 - Section(s) with no Vertical Bus DIMENSIONS AND WEIGHT Dimensions: 50.00"W X 20"D X 94.5"H Approximate Weight: 1440.00 lbs / 653.18 kgs INCOMING Transition to Existing Model 6 Connection on Left of New MCC Existing Factory Order #: 12345678 ADJUSTABLE SPEED DRIVES 1 - Altivar 61 AC Drive 125 HP w/Circuit Breaker Rated for Variable Torque Applications 300VA Control Power Transformer #16 AWG MTW Control Wire 30mm Type K Pilot Devices Hand & Auto Push-to-Test LED Pilot Lights (Yellow) 2 Additional Pilot Device Contact Blocks ASD/Off/Bypass Selector Switch Extended I/O Option Card Barriered NEMA Bypass Contactors ASD On Push-to-Test LED Pilot Light (Red)

(Yellow)
Fault Push-to-Test LED Pilot Light

Motor Off Push-to-Test LED Pilot Light

Bypass On Push-to-Test LED Pilot Light

(Green)
Ethernet (ModbusTCP) Comm Card

Auto Start Relay With 1.5-30 sec. Delay Hand-Off-Auto SW with Manual Speed

Potentiometer

Motor On Push-to-Test LED Pilot Light

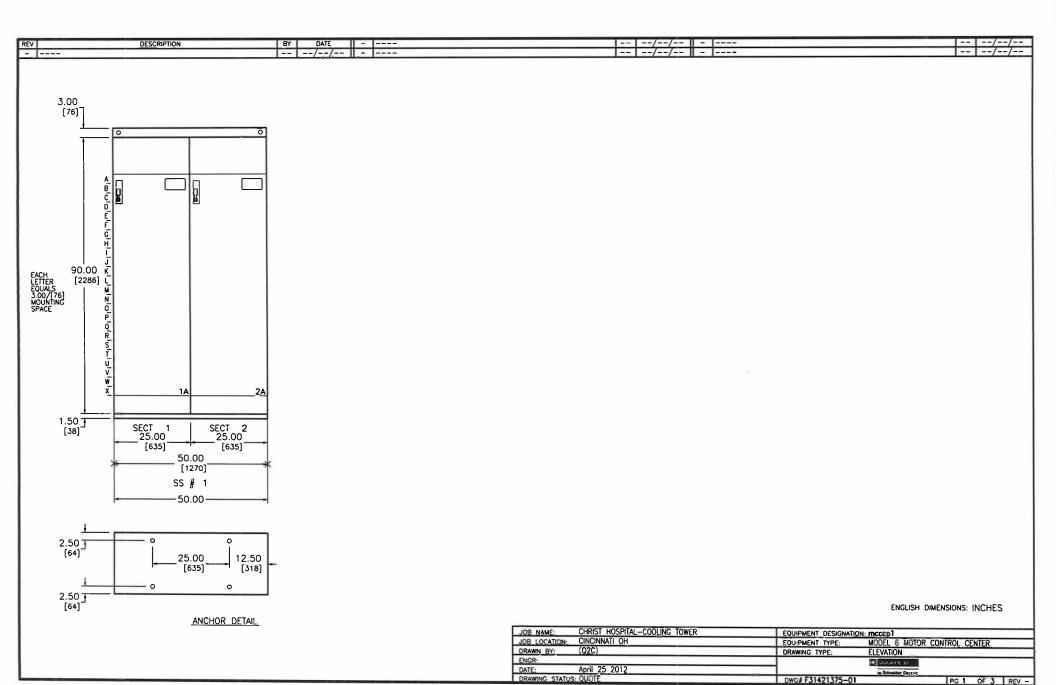
(Red) Line Reactor (3%)

(Yellow)

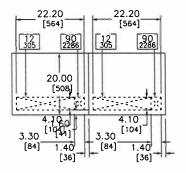
(1) FORWARD-OFF-REVERSE-SELECTOR S (TAG#:

Q2C Number: 31421375 Quote Number: 2 Revision Number: 0
Project Name: CHRIST HOSPITAL-COOLING TOWER Quote Name: COPY OF QUOTE1

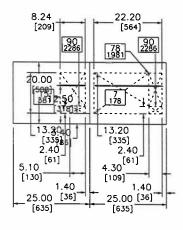
Item No.	Qty.	Catalog Number / Details	
		MISCELLANEOUS DEVICES	
		1 - NEMA Barriered Bypass for Adjustable Speed Drive	
004-00	1	HU364DSEI SW UNFUSED HD 200A STAINLESS/INTERLOCK	



REV	DESCRIPTION	BY		STAC		I -	 I	1-	-/-	/	 11 -	 	= 1	/-	/
-			/	/		-	 	1-	-/-	/	 II -	 		/-	/
-		_			_	_									



TOP VIEW





FLOOR VIEW

CROSSED AREA REPRESENTS CONDUIT ENTRY AREA. NUMBERS IN BOXES INDICATE VERTICAL CLEARANCE TO NEAREST OBSTRUCTION.

JOB NAME: CHRIST HOSPITAL-COOLING TOWER	EQUIPMENT DESIGNAT	ION: mcccp1
JOB LOCATION: CINCINNATI OH	EQUIPMENT TYPE:	MODEL 6 MOTOR CONTROL CENTER
DRAWN BY: (Q2C)	DRAWING TYPE:	ELEVATION
ENGR:		Dispussion in the second
DATE: April 25 2012		be Schoolder Fluttric
DRAWING STATUS: QUOTE	DWG# F31421375-0	

ENGLISH DIMENSIONS: INCHES

REV	DESCRIPTION	BY DATE	-	/ -	/
		//-	- -	"/ -	/

GENERAL NOTES

Class 1 Type B Wiring

PRODUCT DESCRIPTION AND RATINGS

POWER SYSTEM DATA:

480V 3PH 3W 60Hz

SHORT CIRCUIT RATING: 65kA POWER CONNECTS TO EXISTING CONTROL POWER: 120Vac

BUS SYSTEM DATA:

MAIN HORIZONTAL BUS: 1200 Amp Copper/Tin Plated / 1.5"

BUS BRACING: 65kA

HORIZONTAL GROUND BUS: .25" X 1.0" (6.35mm X 25.4mm) Tin Ploted Copper

Units Securely Grounded To Structure

ENCLOSURE DATA:

ENCLOSURE TYPE: 20" DEEP Type 1

EXTERIOR COLOR: Electrodeposition Finish ANSI 49 Medium Light Grey INTERIOR COLOR: Electrodeposition Finish ANSI 49 Medium Light Grey

STRUCTURE MODIFICATIONS:

Ground Bus Lug

Rodent Barriers 1,2

Manual Bus Shutters

Master Nameplate 1

Splice to M6 L

_EQUIPMENT_WEIGHT:

SHIPPING SPLIT # 1: 1440.00 Lbs. (653.18 Kg.)

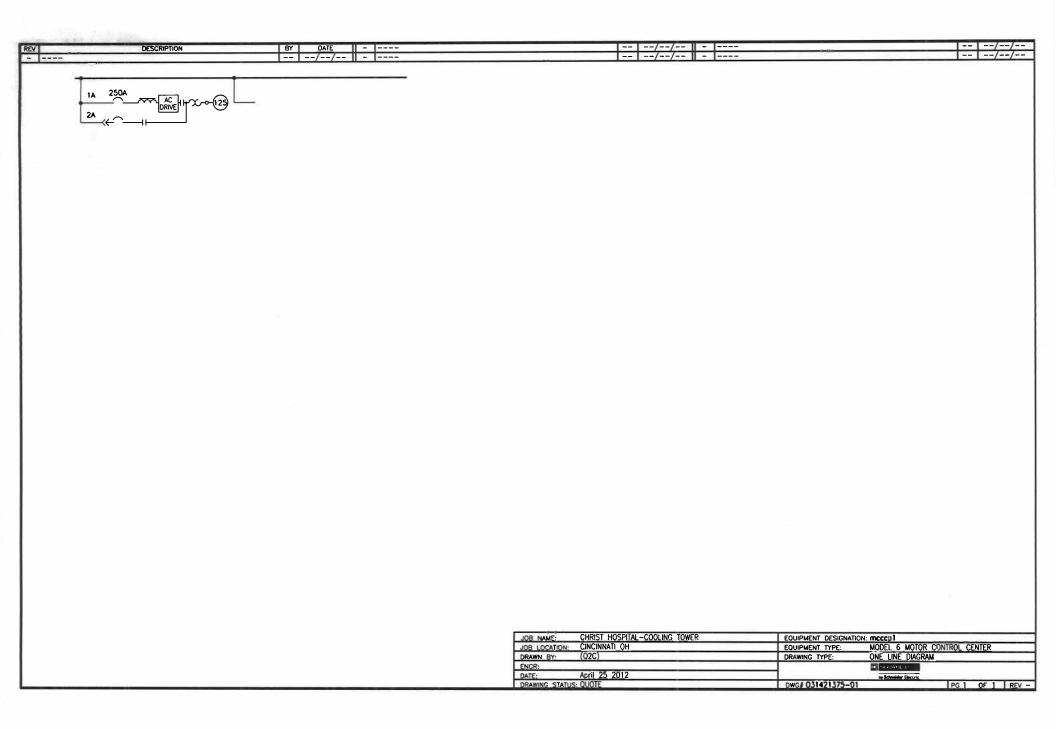
TOTAL LINEUP WEIGHT (APPROX): 1440.00 Lbs. (653.18 Kg.)

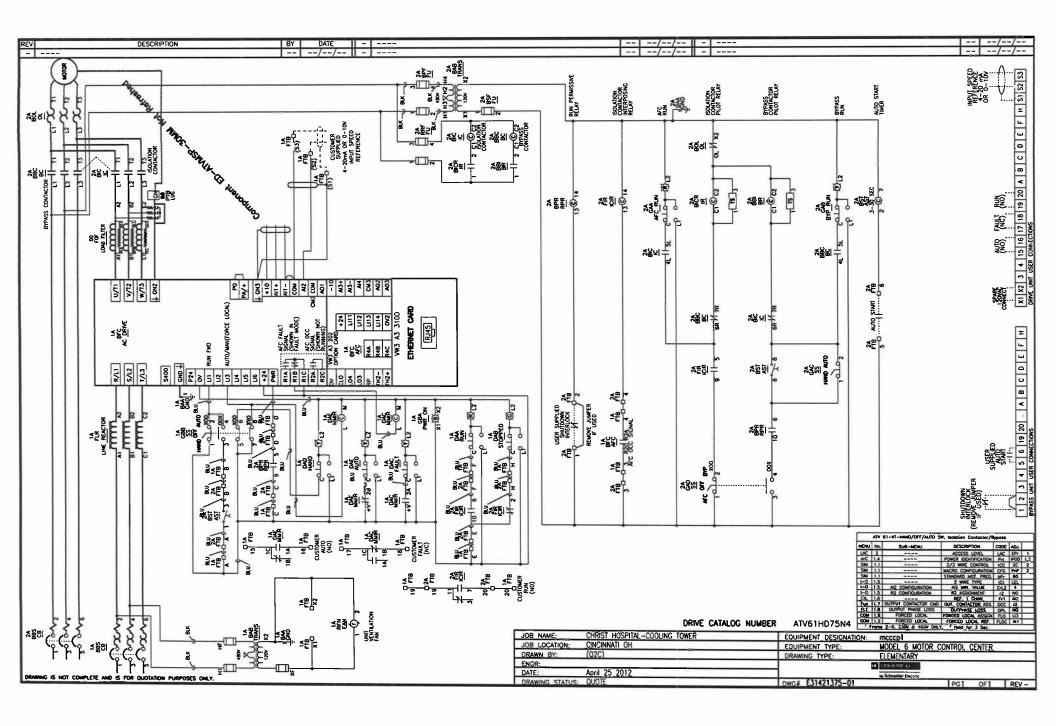
PRODUCT ACCESSORIES:

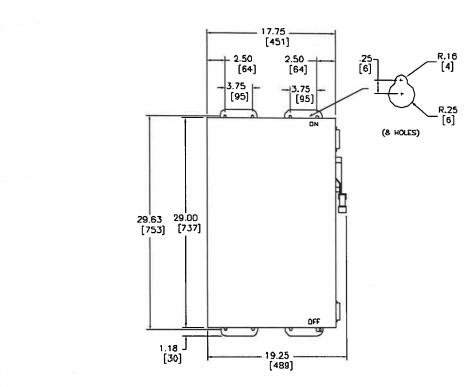
See Unit Features

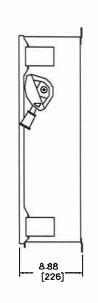
JOB NAME:	CHRIST HOSPITAL-COOLING TOWER	EQUIPMENT DESIGNAT	ION: mcccp1	
JOB LOCATION:	CINCINNATI OH	EQUIPMENT TYPE:	MODEL 6 MOTOR CONTROL CENTER	
DRAWN BY:	(Q2C)	DRAWING TYPE:	ELEVATION	
ENGR:			TO THE E	
DATE:	April 25 2012		sy Schmider Electric	
DRAWING STATU	S: QUOTE	DWG# F31421375-0		REV -

REV DESCRIPTION BY DATE - - - - - -																/ - / -								
UNIT		UNIT	SIZE		FRAME	TRIP	CONTROL SOURCE	VA	FUSE	SIZE	INTER	LOCKS	PILOT DE		JRES 30 mm- 900		OTHER UNIT FEATURES	ELEMENTARY #						
1A		TYPE VI DRIVE	D75	125	LA 400		CONTROL TRANSFORMER		1.60	3.20	NU				BLUE PWR ON	HOA SS SPD POT	#16 AWG MTW CONTROL WIRE, 1.5-30 SEC DELAY AUTO START, ETHERNET TOP COMM. EXTENDED 1/0, PILOT DEVICE ADD'L CONTACT, SPL	E3142137501						
																	Contractive of Contractive Con							
2A	ASD BYPASS STARTER FOR UNIT 1A	NEWA BYPASS	NEMA 5	125	LA 400	400	CONTROL TRANSFORMER	50	.25	.5					RED AFC RUN PTT YELLOW BYPASS RUN PT	AFC/OFF/BYP SS	1.5-30 SEC DELAY AUTO START, MELTING ALLOY OL	E3142137501						
L																								
1180	T NAMEPLATE DESIGNATION	1,5			-					042			011											
LOC		TYPE	SIZE	НР	FRAM	AMPS	CONTROL SOURCE	VA	FUSE	SIZE	INTE	RLOCKS	PILOT D	EVICE FEAT	ADDL P/L URES 30 mm - 90	01K LED		ELEMENTARY #						
	MCC NAMEPLATE - mcc	сср1								J		CATION:	CINCINN	HUSPITAL - CO	DOLING TOWER		EQUIPMENT DESIGNATION: mcccp1 EQUIPMENT TYPE: MODEL 6 MOTOR	CONTROL CENTER						
	(BLACK SURFACE/WHITE LETTERS)									_0	RAWN NGR:		(Q2C)		- Inter-		DRAWING TYPE: UNIT INFORMATION							
										0	ATE:		April 25	2012			Schneider Becario							
_		_										STATU	S: OUDTE				DWG# I31421375-01	PG 1 OF 1 REV -						









	WIRING DIAGRAM	as
FUS	SIBLE	NOT FUSIBLE
	P P P P P P P P P P P P P P P P P P P	9 9 9 D /-/-/

	TERMINAL	LUG DATA ‡	
AMPERES	MAX WIRE	MIN WIRE	TYPE
200	250 KCMIL	#6 AWC	CU/AL

DUAL DIMENSIONS: INCHES MILLIMETERS

				HORSEPOWER RATINGS														
	WIRING		24	OVAC			480	OVAC			6D	OVAC		250 VDC	60D			
NUMBER		DNC	9	סד	N	AX		מדנ		AAX	9	מזנ	N	IAX	210	STD		
			10	30	10	30	10	30	10	30	10	30	10	30				
H2240S	240VAC;250VDC	Α	15	25&	-	60&	-	-	-	-	-	-	-	-	40~	-		
H32405	240VAC:250VDC	В	15^	25&c	-	60&c	-	I -	-	-	-	-	-	-	40~	-		
H3640S	600VAC;600V0C	В	15^	25&	-	60&c	25^	50&	50^	125&	30^	6D	50^	150	40^	50^		
H364NDS	600VAC;600VDC	С	15^	25∦	-	60¥	25^	50#	50^	125/	30^	60	50^	150	40~	50^		
HU3840S	600VAC;600VOC	D	-	1 -	15^	60&	-	-	60^	125&	-	T -	50^	150	4D^<	50~		

NOTES:
FNISH - TYPE 304 STANLESS SIEEL
UL USED - E2875
NISH - TYPE 304 STANLESS SIEEL
UL USED - E2875
NISH S - INSULATED GROUNDABLE
SUITABLE FOR USE AS SERVICE EQUIPMENT
SHORT CRUIT CUIRRENT RAINGS.
10,000 AMPERES WHEN USED WITH OR PROTECTED BY CLASS H OR K FUSES.
200,000 AMPERES WHEN USED WITH OR PROTECTED BY CLASS R OR J FUSES.
ON BOOV SMITCHES, 100,000 AMPERES MAX ON CORNER GROUNDED DELTA WHEN PROTECTED BY
LUCY CLASS J OR R FUSES, 200 AMPERES MAX ON CORNER GROUNDED DELTA WHEN PROTECTED BY
IT CORNER GROUNDED DELTA, INSTALL NEUTRAL AND USE OUTER SWITCHING POLES FOR UNGROUNDED CONDUCTORS.

I IS CORNER GROUNDED DELTA, INSTALL NEUTRAL AND USE OUTER SWITCHING POLES FOR UNGROUNDED CONDUCTORS.

WAX RATING

HEAVY DUTY SAFETY SWITCHES
VISIBLE BLADE TYPE
200 AMPERE – SERES F6
ENCLOSURE – NEMA 4, 4X AND 5 STAINLESS STEEL

SQUARE D COMPANY DWG# 3232

					VFD								% Load
	Total	Total	Total	Indicates	speed (%						% of Full		Range for
	Chiller	Chiller	Chiller	when a	of total		Variable		Monthly	% of	Load BHP	Monthly	Part 2 of
5 ·	Load,	Load,	Load,	chiller is	connecte			Motor HP	hours at %		of Fan	hours at %	Custom
DateTime Minimum Condonsor	2011	2012	2013	running	d tons)		%Capacty	at GPM	GPM	GPM	Motor	Load	Incentive
Minimum Condenser 01 Jul 2010 07:29:43:00	2116	:	2 220	1	56.4%	0	EG 420/				1		
01 Jul 2010 07:29:43:000			3,229 3,919	1	66.8%	0	56.43% 66.83%				1		
02 Jul 2010 07:29:43:000			3,139	1	54.7%	0	54.69%				1		
02 Jul 2010 19:29:43:00				1	69.0%	0	69.01%				1		
03 Jul 2010 07:29:43:00			3,261	1	57.0%	0	57.04%				1		
03 Jul 2010 19:29:43:00				1	78.2%	0	78.16%				1		
04 Jul 2010 07:29:43:00	2824	ı		1	75.3%	0	75.31%				1		
04 Jul 2010 19:29:43:00	2949)		1	78.6%	0	78.64%				1		
05 Jul 2010 07:29:43:00	2843	:		1	75.8%	0	75.81%				1		
05 Jul 2010 19:29:43:00				1	81.6%	0	81.60%				1		
06 Jul 2010 07:29:43:000				1	81.4%	0	81.44%				1		
06 Jul 2010 19:29:43:000				1	80.7%	0	80.72%				1		
07 Jul 2010 07:29:43:00 07 Jul 2010 19:29:43:00				1	79.4% 76.4%	0	79.36% 76.40%				1 1		
08 Jul 2010 07:29:43:00				1	75.1%	0	75.15%				1		
08 Jul 2010 19:29:43:000				1	79.3%	0	79.31%				1		
09 Jul 2010 07:29:43:00				1	80.6%	0	80.56%				1		
09 Jul 2010 19:29:43:000				1	77.3%	0	77.31%				1		
10 Jul 2010 07:29:43:000	2973	:		1	79.3%	0	79.28%				1		
10 Jul 2010 19:29:43:000	2918	;		1	77.8%	0	77.81%				1		
11 Jul 2010 07:29:43:000	2714	1		1	72.4%	0	72.37%				1		
11 Jul 2010 19:29:43:000	2897			1	77.3%	0	77.25%				1		
12 Jul 2010 07:29:43:000				1	77.4%	0	77.39%				1		
12 Jul 2010 19:29:43:000				1	79.1%	0	79.09%				1		
13 Jul 2010 07:29:43:000				1	82.7%	0	82.69%				1		
13 Jul 2010 19:29:43:000 14 Jul 2010 07:29:43:000				1	78.7% 75.1%	0	78.75% 75.15%				1 1		
14 Jul 2010 07:29:43:000				1	77.6%	0	77.57%				1		
15 Jul 2010 07:29:43:000				1	79.7%	0	79.73%				1		
15 Jul 2010 19:29:43:000				1	77.7%	0	77.73%				1		
16 Jul 2010 07:29:43:000				1	79.4%	0	79.36%				1		
16 Jul 2010 19:29:43:00				1	77.7%	0	77.71%				1		
17 Jul 2010 07:29:43:000	2941			1	78.4%	0	78.43%				1		
17 Jul 2010 19:29:43:000	2959	1		1	78.9%	0	78.91%				1		
18 Jul 2010 07:29:43:000	2853			1	76.1%	0	76.08%				1		
18 Jul 2010 19:29:43:00				1	80.3%	0	80.27%				1		
19 Jul 2010 07:29:43:000				1	77.3%	0	77.28%				1		
19 Jul 2010 19:29:43:000				1	80.1%	0	80.11%				1		
20 Jul 2010 07:29:43:000				1	76.8%	0	76.80%				1		
20 Jul 2010 19:29:43:000 21 Jul 2010 07:29:43:000				1	81.2% 78.2%	0	81.17% 78.19%				1 1		
21 Jul 2010 07:29:43:000				1	78.1%	0	78.13%				1		
22 Jul 2010 07:29:43:000				1	82.1%	0	82.11%				1		
22 Jul 2010 19:29:43:000				1	79.4%	0	79.39%				1		
23 Jul 2010 07:29:43:000		!		1	75.5%	0	75.52%				1		
23 Jul 2010 19:29:43:000				1	76.5%	0	76.45%				1		
24 Jul 2010 07:29:43:000	2998	;		1	79.9%	0	79.95%				1		
24 Jul 2010 19:29:43:000	2932	!		1	78.2%	0	78.19%				1		
25 Jul 2010 07:29:43:000	2905	,		1	77.5%	0	77.47%				1		
25 Jul 2010 19:29:43:000				1	78.6%	0	78.59%				1		
26 Jul 2010 07:29:43:000				1	75.4%	0	75.44%				1		1000/
26 Jul 2010 19:29:43:000				1	79.7%	0	79.65%		(744	100%
27 Jul 2010 07:29:43:000 27 Jul 2010 19:29:43:000				1	74.7% 78.6%	0	74.75% 78.56%		613			0	90% 80%
28 Jul 2010 19:29:43:000				1	80.1%	0	80.08%		612 96			0	70%
28 Jul 2010 07:29:43:000				1	76.0%	0	76.00%		24			0	60%
29 Jul 2010 07:29:43:000				1	73.9%	0	73.92%		12			0	50%
29 Jul 2010 19:29:43:000				1	80.8%	0	80.77%		(0	40%
30 Jul 2010 07:29:43:000				1	65.8%	0	65.76%		(0	30%
30 Jul 2010 19:29:43:000		i		1	73.2%	0	73.23%			20%	1	0	20%
31 Jul 2010 07:29:43:000				1	70.7%	0	70.75%			10%		0	10%
31 Jul 2010 19:29:43:000	2849	1		_ 1	76.0%	0	75.97%		744	1	1	744	

01 Aug 2010 07:29:43:000	2608	1	69.5%	0	69.55%				1		
01 Aug 2010 19:29:43:000	2814	1	75.0%	0	75.04%				1		
02 Aug 2010 07:29:43:000	2758	1	73.5%	0	73.55%				1		
02 Aug 2010 19:29:43:000	2826	1	75.4%	0	75.36%				1		
03 Aug 2010 07:29:43:000	2916	1	77.8%	0	77.76%				1		
	2824	1	75.3%	0					1		
03 Aug 2010 19:29:43:000					75.31%						
04 Aug 2010 07:29:43:000	2966	1	79.1%	0	79.09%				1		
04 Aug 2010 19:29:43:000	2992	1	79.8%	0	79.79%						
05 Aug 2010 07:29:43:000	2937	1	78.3%	0	78.32%				1		
05 Aug 2010 19:29:43:000	2930	1	78.1%	0	78.13%				1		
06 Aug 2010 07:29:43:000	2865	1	76.4%	0	76.40%				1		
06 Aug 2010 19:29:43:000	2851	1	76.0%	0	76.03%				1		
07 Aug 2010 07:29:43:000	2736	1	73.0%	0	72.96%				1		
07 Aug 2010 19:29:43:000	2828	1	75.4%	0	75.41%				1		
08 Aug 2010 07:29:43:000	2720	1	72.5%	0	72.53%				1		
08 Aug 2010 19:29:43:000	2855	1	76.1%	0	76.13%				1		
09 Aug 2010 07:29:43:000	2791	1	74.4%	0	74.43%				1		
09 Aug 2010 19:29:43:000	2977	1	79.4%	0	79.39%				1		
10 Aug 2010 07:29:43:000	2891	1	77.1%	0	77.09%				1		
10 Aug 2010 19:29:43:000	2816	1	75.1%	0	75.09%				1		
11 Aug 2010 07:29:43:000	2988	1	79.7%	0	79.68%				1		
11 Aug 2010 19:29:43:000	2995	1	79.9%	0	79.87%				1		
12 Aug 2010 07:29:43:000	2857	1	76.2%	0	76.19%				1		
12 Aug 2010 19:29:43:000	2878	1	76.7%	0	76.75%				1		
13 Aug 2010 07:29:43:000	3027	1	80.7%	0	80.72%				1		
13 Aug 2010 19:29:43:000	2963	1	79.0%	0	79.01%				1		
14 Aug 2010 07:29:43:000	2990	1	79.7%	0	79.73%				1		
14 Aug 2010 19:29:43:000	3031	1	80.8%	0	80.83%				1		
15 Aug 2010 07:29:43:000	2902	1	77.4%	0	77.39%				1		
15 Aug 2010 19:29:43:000	2982	1	79.5%	0	79.52%				1		
16 Aug 2010 07:29:43:000	2674	1	71.3%	0	71.31%				1		
16 Aug 2010 19:29:43:000	2876	1	76.7%	0	76.69%				1		
17 Aug 2010 07:29:43:000	2700	1	72.0%	0	72.00%				1		
17 Aug 2010 19:29:43:000	3007	1	80.2%	0	80.19%				1		
18 Aug 2010 07:29:43:000	2724	1	72.6%	0	72.64%				1		
18 Aug 2010 19:29:43:000	2920	1	77.9%	0	77.87%				1		
19 Aug 2010 07:29:43:000	2929	1	78.1%	0	78.11%				1		
19 Aug 2010 19:29:43:000	2905	1	77.5%	0	77.47%				1		
20 Aug 2010 07:29:43:000	2781	1	74.2%	0	74.16%				1		
20 Aug 2010 19:29:43:000	2920	1	77.9%	0	77.87%				1		
21 Aug 2010 07:29:43:000	2849	1	76.0%	0	75.97%				1		
21 Aug 2010 19:29:43:000	2982	1	79.5%	0	79.52%				1		
22 Aug 2010 07:29:43:000	2800	1	74.7%	0	74.67%				1		
22 Aug 2010 19:29:43:000	2991	1	79.8%	0	79.76%				1		
23 Aug 2010 07:29:43:000	2664	1	71.0%	0	71.04%				1		
23 Aug 2010 19:29:43:000	2848	1	75.9%	0	75.95%				1		
24 Aug 2010 07:29:43:000	2714	1	72.4%	0	72.37%				1		
24 Aug 2010 19:29:43:000	2828	1	75.4%	0	75.41%				1		
25 Aug 2010 07:29:43:000	2751	1	73.4%	0	73.36%				1		
25 Aug 2010 19:29:43:000	2890	1	77.1%	0	77.07%				1		
26 Aug 2010 07:29:43:000	2344	1	62.5%	0	62.51%				1		
26 Aug 2010 19:29:43:000	2721	1	72.6%	0	72.56%		0	100%	1	744	100%
27 Aug 2010 07:29:43:000	2141	1	57.1%	0	57.09%		0	90%	1	0	90%
27 Aug 2010 19:29:43:000	2567	1	68.5%	0	68.45%	5	04	80%	1	0	80%
28 Aug 2010 07:29:43:000	2337	1	62.3%	0	62.32%	2	04	70%	1	0	70%
28 Aug 2010 19:29:43:000	2859	1	76.2%	0	76.24%		36	60%	1	0	60%
29 Aug 2010 07:29:43:000	2795	1	74.5%	0	74.53%		0	50%	1	0	50%
29 Aug 2010 19:29:43:000	2800	1	74.7%	0	74.67%		0	40%	1	0	40%
30 Aug 2010 07:29:43:000	2893	1	77.1%	0	77.15%		0	30%	1	0	30%
30 Aug 2010 19:29:43:000	2898	1	77.3%	0	77.28%			20%	1	0	20%
31 Aug 2010 07:29:43:000	2939	1	78.4%	0	78.37%			10%	1	0	10%
31 Aug 2010 19:29:43:000	3030	1	80.8%	0	80.80%	7	44		1	744	
01 Sep 2010 07:29:43:000	2945	1	78.5%	0	78.53%				1		
01 Sep 2010 19:29:43:000	1888	1	50.3%	0	50.35%				1		
02 Sep 2010 07:29:43:000	2840	1	75.7%	0	75.73%				1		
02 Sep 2010 19:29:43:000	3028	1	80.7%	0	80.75%				1		
03 Sep 2010 07:29:43:000	2942	1	78.5%	0	78.45%				1		
03 Sep 2010 19:29:43:000	2600	1	69.3%	0	69.33%				1		
				-							

04 Sep 2010 07:29:43:000	2027	1	54.1%	0	54.05%			1		
04 Sep 2010 19:29:43:000	2396	1		0	63.89%			1		
05 Sep 2010 07:29:43:000	1820	1		0	48.53%			1		
05 Sep 2010 19:29:43:000	2409	1	64.2%	0	64.24%			1		
06 Sep 2010 07:29:43:000	2102	1	56.1%	0	56.05%			1		
06 Sep 2010 19:29:43:000	2734	1	72.9%	0	72.91%			1		
07 Sep 2010 07:29:43:000	2446	1	65.2%	0	65.23%			1		
07 Sep 2010 19:29:43:000	3030	1	80.8%	0	80.80%			1		
08 Sep 2010 07:29:43:000	2371	1	63.2%	0	63.23%			1		
08 Sep 2010 19:29:43:000	2600	1	69.3%	0	69.33%			1		
09 Sep 2010 07:29:43:000	2010	1	53.6%	0	53.60%			1		
09 Sep 2010 19:29:43:000	2565	1	68.4%	0	68.40%			1		
10 Sep 2010 07:29:43:000	2097	1	55.9%	0	55.92%			1		
10 Sep 2010 19:29:43:000	2620	1	69.9%	0	69.87%			1		
11 Sep 2010 07:29:43:000	2353	1	62.7%	0	62.75%			1		
11 Sep 2010 19:29:43:000	2880	1	76.8%	0	76.80%			1		
12 Sep 2010 07:29:43:000	2580	1	68.8%	0	68.80%			1		
12 Sep 2010 19:29:43:000	2577	1		0	68.72%			1		
13 Sep 2010 07:29:43:000	2375	1	63.3%	0	63.33%			1		
13 Sep 2010 19:29:43:000	2818	1		0	75.15%			1		
14 Sep 2010 07:29:43:000	2405	1		0	64.13%			1		
14 Sep 2010 19:29:43:000	2600	1		0	69.33%			1		
15 Sep 2010 07:29:43:000	2253	1		0	60.08%			1		
15 Sep 2010 19:29:43:000	2979	1		0	79.44%			1		
16 Sep 2010 07:29:43:000	3023	1		0	80.61%			1		
16 Sep 2010 19:29:43:000	2896	1		0	77.23%			1		
17 Sep 2010 07:29:43:000	2428	1		0	64.75%			1		
17 Sep 2010 19:29:43:000	2576	1		0	68.69%			1		
18 Sep 2010 07:29:43:000	2304	1		0	61.44%			1		
18 Sep 2010 19:29:43:000	2846	1 1		0	75.89%			1		
19 Sep 2010 07:29:43:000 19 Sep 2010 19:29:43:000	2596	1		0	69.23%			1		
20 Sep 2010 19:29:43:000	2863 2705	1		0	76.35% 72.13%			1		
20 Sep 2010 07:29:43:000 20 Sep 2010 19:29:43:000	2971	1		0	79.23%			1		
21 Sep 2010 07:29:43:000	2658	1		0	70.88%			1		
21 Sep 2010 19:29:43:000	3077	1		0	82.05%			1		
22 Sep 2010 07:29:43:000	3049	1		0	81.31%			1		
22 Sep 2010 19:29:43:000	2847	1		0	75.92%			1		
23 Sep 2010 07:29:43:000	2952	1		0	78.72%			1		
23 Sep 2010 19:29:43:000	2985	1		0	79.60%			1		
24 Sep 2010 07:29:43:000	2339	1	62.4%	0	62.37%			1		
24 Sep 2010 19:29:43:000	2985	1	79.6%	0	79.60%			1		
25 Sep 2010 07:29:43:000	2340	1	62.4%	0	62.40%			1		
25 Sep 2010 19:29:43:000	2472	1	65.9%	0	65.92%	0	100%	1	720	100%
26 Sep 2010 07:29:43:000	1865	1	49.7%	0	49.73%	0	90%	1	0	90%
26 Sep 2010 19:29:43:000	2385	1	63.6%	0	63.60%	228	80%	1	0	80%
27 Sep 2010 07:29:43:000	1789	1		0	47.71%	168		1	0	70%
27 Sep 2010 19:29:43:000	1826	1		0	48.69%	192		1	0	60%
28 Sep 2010 07:29:43:000	1875	1		0	50.00%	120		1	0	50%
28 Sep 2010 19:29:43:000	1909	1		0	50.91%	12		1	0	40%
29 Sep 2010 07:29:43:000	1342	1		0	35.79%	0		1	0	30%
29 Sep 2010 19:29:43:000	2147	1		0	57.25%			1	0	20%
30 Sep 2010 07:29:43:000	1781	1		0	47.49%	700		1	0	10%
30 Sep 2010 19:29:43:000	2144	1		0	57.17%	720		1	720	
01 Oct 2010 07:29:43:000 01 Oct 2010 19:29:43:000	1708 2006	1 1		0	45.55% 53.49%			1		
02 Oct 2010 19:29:43:000	1742	1		0	46.45%			1		
02 Oct 2010 07:29:43:000 02 Oct 2010 19:29:43:000	1635	1		0	43.60%			1		
03 Oct 2010 19:29:43:000	1410	1		0	37.60%			1		
03 Oct 2010 07:29:43:000 03 Oct 2010 19:29:43:000	1625	1		0	43.33%			1		
04 Oct 2010 17:29:43:000	1423	1		0	37.95%			1		
04 Oct 2010 07:29:43:000 04 Oct 2010 19:29:43:000	1723	1		0	45.95%			1		
05 Oct 2010 07:29:43:000	1440	1		0	38.40%			1		
05 Oct 2010 07:29:43:000	1992	1		0	53.12%			1		
06 Oct 2010 07:29:43:000	1403	1		0	37.41%			1		
06 Oct 2010 19:29:43:000	1929	1		0	51.44%			1		
07 Oct 2010 07:29:43:000	1785	1		0	47.60%			1		
07 Oct 2010 19:29:43:000	2280	1	60.8%	0	60.80%			1		

08 Oct 2010 07:29:43:000	1720	1	45.9%	0	45.87%			1	
08 Oct 2010 19:29:43:000	2419	1	64.5%	0	64.51%			1	
09 Oct 2010 07:29:43:000	1864	1	49.7%	0	49.71%			1	
09 Oct 2010 19:29:43:000	2477	1	66.1%	0	66.05%			1	
10 Oct 2010 07:29:43:000	2065	1	55.1%	0	55.07%			1	
10 Oct 2010 07:29:43:000	2710	1	72.3%	0	72.27%			1	
				0					
11 Oct 2010 07:29:43:000	2138	1	57.0%		57.01%			1	
11 Oct 2010 19:29:43:000	2632	1	70.2%	0	70.19%			1	
12 Oct 2010 07:29:43:000	2238	1	59.7%	0	59.68%			1	
12 Oct 2010 19:29:43:000	2504	1	66.8%	0	66.77%			1	
13 Oct 2010 07:29:43:000	1903	1	50.7%	0	50.75%			1	
13 Oct 2010 19:29:43:000	2356	1	62.8%	0	62.83%			1	
14 Oct 2010 07:29:43:000	1500	1	40.0%	0	40.00%			1	
14 Oct 2010 19:29:43:000	1807	1	48.2%	0	48.19%			1	
15 Oct 2010 07:29:43:000	1634	1	43.6%	0	43.57%			1	
15 Oct 2010 19:29:43:000	1862	1	49.7%	0	49.65%			1	
16 Oct 2010 07:29:43:000	1329	1	35.4%	0	35.44%			1	
16 Oct 2010 19:29:43:000	1767	1	47.1%	0	47.12%			1	
17 Oct 2010 07:29:43:000	1756	1	46.8%	0	46.83%			1	
17 Oct 2010 19:29:43:000	1726	1	46.0%	0	46.03%			1	
18 Oct 2010 07:29:43:000	1568	1	41.8%	0	41.81%			1	
18 Oct 2010 19:29:43:000	1700	1	45.3%	0	45.33%			1	
19 Oct 2010 07:29:43:000	1488	1	39.7%	0	39.68%			1	
19 Oct 2010 19:29:43:000	1723	1	45.9%	0	45.95%			1	
20 Oct 2010 07:29:43:000	1468	1	39.1%	0	39.15%			1	
20 Oct 2010 19:29:43:000	1845	1	49.2%	0	49.20%			1	
21 Oct 2010 07:29:43:000	1634	1	43.6%	0	43.57%			1	
21 Oct 2010 07:29:43:000	1638	1	43.7%	0	43.68%			1	
22 Oct 2010 17:29:43:000			33.5%	0					
	1258	1		0	33.55%			1	
22 Oct 2010 19:29:43:000	1748	1	46.6%		46.61%			1	
23 Oct 2010 07:29:43:000	1539	1	41.0%	0	41.04%			1	
23 Oct 2010 19:29:43:000	1739	1	46.4%	0	46.37%			1	
24 Oct 2010 07:29:43:000	1727	1	46.1%	0	46.05%			1	
24 Oct 2010 19:29:43:000	2712	1	72.3%	0	72.32%			1	
25 Oct 2010 07:29:43:000	2427	1	64.7%	0	64.72%			1	
25 Oct 2010 19:29:43:000	2528	1	67.4%	0	67.41%			1	
26 Oct 2010 07:29:43:000	2725	1	72.7%	0	72.67%			1	
26 Oct 2010 19:29:43:000	1663	1	44.3%	0	44.35%	0	100%	1	744
27 Oct 2010 07:29:43:000	1510	1	40.3%	0	40.27%	0	90%	1	0
27 Oct 2010 19:29:43:000	2244	1	59.8%	0	59.84%	0	80%	1	C
28 Oct 2010 07:29:43:000	1616	1	43.1%	0	43.09%	84	70%	1	C
28 Oct 2010 19:29:43:000	1158	1	30.9%	0	30.88%	96	60%	1	(
29 Oct 2010 07:29:43:000	1155	1	30.8%	0	30.80%	252	50%	1	C
29 Oct 2010 19:29:43:000	1102	1	29.4%	0	29.39%	216	40%	1	0
30 Oct 2010 07:29:43:000	1144	1	30.5%	0	30.51%	96	30%	1	(
30 Oct 2010 19:29:43:000	1173	1	31.3%	0	31.28%		20%	1	C
31 Oct 2010 07:29:43:000	1124	1	30.0%	0	29.97%		10%	1	C
31 Oct 2010 19:29:43:000	1161	1	31.0%	0	30.96%	744		1	744
01 Nov 2010 07:29:43:000	1155	1	30.8%	0	30.80%			1	
01 Nov 2010 19:29:43:000	1167	1	31.1%	0	31.12%			1	
02 Nov 2010 07:29:43:000	1186	1	31.6%	0	31.63%			1	
02 Nov 2010 19:29:43:000	1113	1	29.7%	0	29.68%			1	
03 Nov 2010 19:29:43:000 03 Nov 2010 07:29:43:000	1113	1	29.7%	0	29.87%			1	
	1179			0					
03 Nov 2010 19:29:43:000		1	31.4%		31.44%			1	
04 Nov 2010 07:29:43:000	1170	1	31.2%	0	31.20%			1	
04 Nov 2010 19:29:43:000	1134	1	30.2%	0	30.24%			1	
05 Nov 2010 07:29:43:000	1168	1	31.1%	0	31.15%			1	
05 Nov 2010 19:29:43:000	0	0	0.0%	0	0.00%				
06 Nov 2010 07:29:43:000	0	0	0.0%	0	0.00%			7	
06 Nov 2010 19:29:43:000	0	0	0.0%	0	0.00%				
07 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%			-	
07 Nov 2010 18:29:43:000	1112	1	29.7%	0	29.65%			1	
08 Nov 2010 06:29:43:000	1108	1	29.5%	0	29.55%			1	
08 Nov 2010 18:29:43:000	1526	1	40.7%	0	40.69%			1	
09 Nov 2010 06:29:43:000	1550	1	41.3%	0	41.33%			1	
	1596	1	42.6%	0	42.56%			1	
09 Nov 2010 18:29:43:000									
09 Nov 2010 18:29:43:000 10 Nov 2010 06:29:43:000	1154	1	30.8%	0	30.77%			1	

							-						
11 Nov 2010 06:29:43:000	1596	1	42.6%	0	42.56%						1		
11 Nov 2010 18:29:43:000	2161	1	57.6%	0	57.63%						1		
12 Nov 2010 06:29:43:000	1134	1	30.2%	0	30.24%						1		
12 Nov 2010 18:29:43:000	2185	1	58.3%	0	58.27%						1		
13 Nov 2010 06:29:43:000	1199	1	32.0%	0	31.97%						1		
13 Nov 2010 18:29:43:000	2280	1	60.8%	0	60.80%						1		
14 Nov 2010 06:29:43:000	1139	1	30.4%	0	30.37%						1		
14 Nov 2010 18:29:43:000	1165	1	31.1%	0	31.07%						1		
15 Nov 2010 06:29:43:000	1136	1	30.3%	0	30.29%						1		
15 Nov 2010 18:29:43:000	1170	1	31.2%	0	31.20%						1		
16 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%								
16 Nov 2010 18:29:43:000	1000	1	26.7%	0							1		
					26.67%						1		
17 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%						7		
17 Nov 2010 18:29:43:000	0	0	0.0%	0	0.00%						7		
18 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%								
18 Nov 2010 18:29:43:000	0	0	0.0%	0	0.00%						-		
19 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%								
19 Nov 2010 18:29:43:000	0	0	0.0%	0	0.00%						2.0		
20 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%						100		
20 Nov 2010 18:29:43:000	1161	1	31.0%	0	30.96%						1		
21 Nov 2010 16:29:43:000	1121	1	29.9%	0	29.89%						1		
21 Nov 2010 18:29:43:000	1635	1	43.6%	0	43.60%						1		
22 Nov 2010 06:29:43:000	1621	1	43.2%	0	43.23%						1		
22 Nov 2010 18:29:43:000	1873	1	49.9%	0	49.95%						1		
23 Nov 2010 06:29:43:000	1686	1	45.0%	0	44.96%						1		
23 Nov 2010 18:29:43:000	0	0	0.0%	0	0.00%						-		
24 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%								
24 Nov 2010 18:29:43:000	0	0	0.0%	0	0.00%						2.0		
25 Nov 2010 06:29:43:000	1111	1	29.6%	0	29.63%						1		
25 Nov 2010 18:29:43:000	1432	1	38.2%	0	38.19%				0	100%	1	444	100%
26 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%				0	90%	1	0	90%
											- 1		
26 Nov 2010 18:29:43:000	0	0	0.0%	0	0.00%				0	80%	7	0	80%
27 Nov 2010 06:29:43:000	0	0	0.0%	0	0.00%				0	70%		0	70%
27 Nov 2010 18:29:43:000	0	0	0.0%	0	0.00%				48	60%		0	60%
27 Nov 2010 18:29:43:000 28 Nov 2010 06:29:43:000	0	0 0	0.0% 0.0%	0 0	0.00% 0.00%				48 36	60% 50%		0 0	50%
						45	53	8			-		
28 Nov 2010 06:29:43:000 28 Nov 2010 18:29:43:000	0 0	0	0.0% 0.0%	0 0	0.00% 0.00%	45	53	8	36 96	50% 40%	-	0	50% 40%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C	0 0 0	0 0 0	0.0% 0.0% 0.0%	0 0 0	0.00% 0.00% 0.00%	45	53	8	36	50% 40% 30%	- - - -	0 0 0	50% 40% 30%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C 29 Nov 2010 18:29:43:00C	0 0 0 1764	0 0 0 1	0.0% 0.0% 0.0% 47.0%	0 0 0 0	0.00% 0.00% 0.00% 47.04%	45	53	8	36 96	50% 40% 30% 20%	- - - 1	0 0 0 0	50% 40% 30% 20%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C 29 Nov 2010 18:29:43:00C 30 Nov 2010 06:29:43:00C	0 0 0 1764 1790	0 0 0 1 1	0.0% 0.0% 0.0% 47.0% 47.7%	0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73%	45	53	8	36 96 264	50% 40% 30%	- - - 1	0 0 0 0	50% 40% 30%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C 29 Nov 2010 18:29:43:00C 30 Nov 2010 18:29:43:00C 30 Nov 2010 18:29:43:00C	0 0 0 1764 1790 0	0 0 0 1 1 0	0.0% 0.0% 0.0% 47.0% 47.7% 0.0%	0 0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73% 0.00%	45	53	8	36 96	50% 40% 30% 20%		0 0 0 0	50% 40% 30% 20%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C 29 Nov 2010 18:29:43:00C 30 Nov 2010 06:29:43:00C 30 Nov 2010 18:29:43:00C 01 Dec 2010 06:29:43:000	0 0 0 1764 1790 0	0 0 0 1 1 0 0	0.0% 0.0% 0.0% 47.0% 47.7% 0.0%	0 0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73% 0.00%	45	53	8	36 96 264	50% 40% 30% 20%		0 0 0 0	50% 40% 30% 20%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C 29 Nov 2010 18:29:43:00C 30 Nov 2010 06:29:43:00C 30 Nov 2010 18:29:43:00C 01 Dec 2010 06:29:43:000 01 Dec 2010 18:29:43:000	0 0 0 1764 1790 0	0 0 0 1 1 0 0	0.0% 0.0% 0.0% 47.0% 47.7% 0.0% 0.0%	0 0 0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73% 0.00% 0.00%	45	53	8	36 96 264	50% 40% 30% 20%		0 0 0 0	50% 40% 30% 20%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 18:29:43:00C 29 Nov 2010 18:29:43:00C 30 Nov 2010 18:29:43:00C 30 Nov 2010 18:29:43:00C 01 Dec 2010 06:29:43:00C 01 Dec 2010 18:29:43:00C 02 Dec 2010 06:29:43:00C	0 0 0 1764 1790 0 0	0 0 0 1 1 0 0	0.0% 0.0% 0.0% 47.0% 47.7% 0.0% 0.0%	0 0 0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73% 0.00% 0.00% 0.00%	45	53	8	36 96 264	50% 40% 30% 20%		0 0 0 0	50% 40% 30% 20%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C 29 Nov 2010 18:29:43:00C 30 Nov 2010 06:29:43:00C 30 Nov 2010 18:29:43:00C 01 Dec 2010 06:29:43:000 01 Dec 2010 18:29:43:000	0 0 0 1764 1790 0	0 0 0 1 1 0 0	0.0% 0.0% 0.0% 47.0% 47.7% 0.0% 0.0%	0 0 0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73% 0.00% 0.00%	45	53	8	36 96 264	50% 40% 30% 20%		0 0 0 0	50% 40% 30% 20%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 18:29:43:00C 29 Nov 2010 18:29:43:00C 30 Nov 2010 18:29:43:00C 30 Nov 2010 18:29:43:00C 01 Dec 2010 06:29:43:00C 01 Dec 2010 18:29:43:00C 02 Dec 2010 06:29:43:00C	0 0 0 1764 1790 0 0	0 0 0 1 1 0 0	0.0% 0.0% 0.0% 47.0% 47.7% 0.0% 0.0%	0 0 0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73% 0.00% 0.00% 0.00%	45	53	8	36 96 264	50% 40% 30% 20%		0 0 0 0	50% 40% 30% 20%
28 Nov 2010 06:29:43:00C 28 Nov 2010 18:29:43:00C 29 Nov 2010 06:29:43:00C 29 Nov 2010 06:29:43:00C 30 Nov 2010 06:29:43:00C 30 Nov 2010 18:29:43:00C 01 Dec 2010 06:29:43:00C 01 Dec 2010 18:29:43:00C 02 Dec 2010 18:29:43:00C 02 Dec 2010 18:29:43:00C	0 0 0 1764 1790 0 0 0	0 0 0 1 1 1 0 0 0	0.0% 0.0% 0.0% 47.0% 47.7% 0.0% 0.0% 0.0%	0 0 0 0 0 0 0	0.00% 0.00% 0.00% 47.04% 47.73% 0.00% 0.00% 0.00% 0.00%	45	53	8	36 96 264	50% 40% 30% 20%		0 0 0 0	50% 40% 30% 20%
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15 Dec 2010 06:29:43:000									
	1074	1	28.6%	0	28.64%			1	
15 Dec 2010 18:29:43:000	1192	1	31.8%	0	31.79%			1	
16 Dec 2010 06:29:43:000	0	0	0.0%	0	0.00%			-	
16 Dec 2010 18:29:43:000	0	0	0.0%	0	0.00%			7	
17 Dec 2010 06:29:43:000	0	0	0.0%	0	0.00%			7	
17 Dec 2010 18:29:43:000	0	0	0.0%	0	0.00%			-	
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26 Dec 2010 06:29:43:000	1147	1	30.6%	0	30.59%			1	
26 Dec 2010 18:29:43:000	1175	1	31.3%	0	31.33%	0	100%	1	276
27 Dec 2010 06:29:43:000	1103	1	29.4%	0	29.41%	0	90%	1	0
27 Dec 2010 18:29:43:000	1126	1	30.0%	0	30.03%	0	80%	1	0
28 Dec 2010 06:29:43:000	1134	1	30.2%	0	30.24%	0	70%	1	0
28 Dec 2010 18:29:43:000	1137	1	30.3%	0	30.32%	0	60%	1	0
29 Dec 2010 06:29:43:000	1182	1	31.5%	0	31.52%	12	50%	1	0
29 Dec 2010 18:29:43:000	0	0	0.0%	0	0.00%	0	40%	-	0
30 Dec 2010 06:29:43:000	0	0	0.0%	0	0.00%	264	30%	-	0
30 Dec 2010 18:29:43:000	1102	1	29.4%	0	29.39%		20%	1	0
31 Dec 2010 06:29:43:000	826	1	22.0%	0	22.03%		10%	1	0
31 Dec 2010 18:29:43:000	1877	1	50.1%	0	50.05%	276		1	276
01 Jan 2011 06:29:43:000					47.04%	270		-	270
	1764	1	47.0%	0				1	
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07 Jan 2011 06:29:43:000	1158	1	30.9%	0	30.88%			1	
07 Jan 2011 18:29:43:000	1147	1	30.6%	0	30.59%			1	
08 Jan 2011 16:29:43:000	1144	1	30.5%	0	30.51%			1	
08 Jan 2011 18:29:43:000	1162	1	31.0%	0	30.99%			1	
09 Jan 2011 06:29:43:000	1046	1	27.9%	0	27.89%			1	
09 Jan 2011 18:29:43:000	1110	1	29.6%	0	29.60%			1	
10 Jan 2011 06:29:43:000	1169	1	31.2%	0	31.17%			1	
10 Jan 2011 18:29:43:000	1190	1	31.7%	0	31.73%			1	
11 Jan 2011 06:29:43:000	1160	1	30.9%	0	30.93%			1	
				0				1	
11 Jan 2011 18:29:43:000	1118	1	29.8%		29.81%				
12 Jan 2011 06:29:43:000	1190	1	31.7%	0	31.73%			1	
12 Jan 2011 18:29:43:000	1160	1	30.9%	0	30.93%			1	
13 Jan 2011 06:29:43:000	1083	1	28.9%	0	28.88%			1	
	1155	1	30.8%	0	30.80%			1	
13 Jan 2011 18:29:43:000	1168	1	31.1%	0	31.15%			1	
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18 Jan 2011 18:29:43:000	1186	1	31.6%	0	31.63%			1		
19 Jan 2011 06:29:43:000	1134	1		0	30.24%			1		
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20 Jan 2011 06:29:43:000	1114	1		0	29.71%					
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21 Jan 2011 06:29:43:000	1158	1	30.9%	0	30.88%			1		
21 Jan 2011 18:29:43:000	1182	1	31.5%	0	31.52%			1		
22 Jan 2011 06:29:43:000	1162	1	31.0%	0	30.99%			1		
22 Jan 2011 18:29:43:000	1110	1	29.6%	0	29.60%			1		
23 Jan 2011 06:29:43:000	1142	1	30.5%	0	30.45%			1		
23 Jan 2011 18:29:43:000	1180	1		0	31.47%			1		
24 Jan 2011 06:29:43:000	1197	1		0				1		
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30 Jan 2011 06:29:43:000	0	C	0.0%	0	0.00%	468	30%	-	0	30%
30 Jan 2011 18:29:43:000	0	C	0.0%	0	0.00%		20%	-	0	20%
31 Jan 2011 06:29:43:000	1079	1	28.8%	0	28.77%		10%	1	0	10%
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02 Feb 2011 18:29:43:000	1106	1		0	29.49%			1		
03 Feb 2011 06:29:43:000	1135	1	30.3%	0	30.27%			1		
03 Feb 2011 18:29:43:000	1178	1	31.4%	0	31.41%			1		
04 Feb 2011 06:29:43:000	1147	1	30.6%	0	30.59%			1		
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08 Feb 2011 18:29:43:000	400	1	10.7%	0	10.67%			1		
09 Feb 2011 06:29:43:000	400	1	10.7%	0	10.67%			1		
09 Feb 2011 18:29:43:000	1152	1		0	30.72%			1		
10 Feb 2011 06:29:43:000	1199	1		0	31.97%			1		
10 Feb 2011 18:29:43:000	1109	1		0	29.57%			1		
11 Feb 2011 06:29:43:000	1113	1		0	29.68%			1		
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13 Feb 2011 06:29:43:000	0	C	0.0%	0	0.00%			-		
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16 Feb 2011 18:29:43:000	2349	1		0	62.64%			1		
17 Feb 2011 06:29:43:000	1112	1	29.7%	0	29.65%			1		
17 Feb 2011 18:29:43:000	2353	1		0	62.75%			1		
18 Feb 2011 06:29:43:000	2382	1		0	63.52%			1		
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19 Feb 2011 06:29:43:000	0	0		0	0.00%					
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21 Feb 2011 06:29:43:000	1762	1 47	7.0%	0	46.99%			1		
21 Feb 2011 18:29:43:000	0		0.0%	0	0.00%					
22 Feb 2011 06:29:43:000	0		0.0%	0	0.00%			2		
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23 Feb 2011 06:29:43:000	0		0.0%	0	0.00%					
23 Feb 2011 18:29:43:000	0		0.0%	0	0.00%	0	100%		228	100%
24 Feb 2011 06:29:43:000	0		0.0%	0	0.00%	0	90%	-	0	90%
24 Feb 2011 18:29:43:000	358		9.5%	0	9.55%	0	80%	1	0	80%
25 Feb 2011 06:29:43:000	0		0.0%	0	0.00%	0	70%	-	0	70%
25 Feb 2011 18:29:43:000	0		0.0%	0	0.00%	60	60%	-	0	60%
26 Feb 2011 06:29:43:000	0	0 0	0.0%	0	0.00%	12	50%	-	0	50%
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27 Feb 2011 06:29:43:000	0	0 (0.0%	0	0.00%	156	30%	-	0	30%
27 Feb 2011 18:29:43:000	1169	1 31	1.2%	0	31.17%		20%	1	0	20%
28 Feb 2011 06:29:43:000	2096	1 55	5.9%	0	55.89%		10%	1	0	10%
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01 Mar 2011 06:29:43:000	0	0 0	0.0%	0	0.00%			-		
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10 Mar 2011 06:29:43:000	695	1 18	8.5%	0	18.53%			1		
10 Mar 2011 18:29:43:000	0	0 0	0.0%	0	0.00%					
11 Mar 2011 06:29:43:000	0	0 0	0.0%	0	0.00%					
11 Mar 2011 18:29:43:000	328	1 8	8.7%	0	8.75%			1		
12 Mar 2011 06:29:43:000	0	0 (0.0%	0	0.00%			-		
12 Mar 2011 18:29:43:000	1382	1 36	6.9%	0	36.85%			1		
13 Mar 2011 07:29:43:000	0	0 0	0.0%	0	0.00%			-		
13 Mar 2011 19:29:43:000	0	0 0	0.0%	0	0.00%			-		
14 Mar 2011 07:29:43:000	0	0 (0.0%	0	0.00%			-		
14 Mar 2011 19:29:43:000	316	1 8	8.4%	0	8.43%			1		
15 Mar 2011 07:29:43:000	290	1 7	7.7%	0	7.73%			1		
15 Mar 2011 19:29:43:000	810	1 21	1.6%	0	21.60%			1		
16 Mar 2011 07:29:43:000	356	1 9	9.5%	0	9.49%			1		
16 Mar 2011 19:29:43:000	1573		1.9%	0	41.95%			1		
17 Mar 2011 07:29:43:000	718	1 19	9.1%	0	19.15%			1		
17 Mar 2011 19:29:43:000	2335	1 62	2.3%	0	62.27%			1		
18 Mar 2011 07:29:43:000	2259		0.2%	0	60.24%			1		
18 Mar 2011 19:29:43:000	1561	1 41	1.6%	0	41.63%			1		
19 Mar 2011 07:29:43:000	696	1 18	8.6%	0	18.56%			1		
19 Mar 2011 19:29:43:000	946	1 25	5.2%	0	25.23%			1		
20 Mar 2011 07:29:43:000	644	1 17	7.2%	0	17.17%			1		
20 Mar 2011 19:29:43:000	2262	1 60	0.3%	0	60.32%			1		
21 Mar 2011 07:29:43:000	2222	1 59	9.3%	0	59.25%			1		
21 Mar 2011 19:29:43:000	2608	1 69	9.5%	0	69.55%			1		
22 Mar 2011 07:29:43:000	1773	1 47	7.3%	0	47.28%			1		
22 Mar 2011 19:29:43:000	2468	1 65	5.8%	0	65.81%			1		
23 Mar 2011 07:29:43:000	2287	1 61	1.0%	0	60.99%			1		
23 Mar 2011 19:29:43:000	1475		9.3%	0	39.33%			1		
24 Mar 2011 07:29:43:000	815	1 21	1.7%	0	21.73%			1		
24 Mar 2011 19:29:43:000	0	0 0	0.0%	0	0.00%			-		
25 Mar 2011 07:29:43:000	0	0 0	0.0%	0	0.00%			-		
25 Mar 2011 19:29:43:000	0	0 0	0.0%	0	0.00%			-		
26 Mar 2011 07:29:43:000	0	0 0	0.0%	0	0.00%			-		
26 Mar 2011 19:29:43:000	0	0 0	0.0%	0	0.00%	0	100%	-	408	100%

27.4 2044 27.20 42.204		0 000		0.000/		000/			000/
27 Mar 2011 07:29:43:000	0	0 0.0%			0			0	90%
27 Mar 2011 19:29:43:000	0	0 0.0%		0.00%	0	80%		0	80%
28 Mar 2011 07:29:43:000	0	0 0.0%	0	0.00%	24	70%	-	0	70%
28 Mar 2011 19:29:43:000	0	0 0.0%	0	0.00%	60	60%	-	0	60%
29 Mar 2011 07:29:43:000	0	0 0.0%	0	0.00%	12	50%	-	0	50%
29 Mar 2011 19:29:43:000	0	0 0.0%	0	0.00%	48	40%	-	0	40%
30 Mar 2011 07:29:43:000	0	0 0.0%	0	0.00%	264	30%	-	0	30%
30 Mar 2011 19:29:43:00(0	0 0.0%	0	0.00%		20%	-	0	20%
31 Mar 2011 07:29:43:000	0	0 0.0%		0.00%		10%		0	10%
31 Mar 2011 19:29:43:000	0	0 0.0%			408		_	408	
01 Apr 2011 07:29:43:000	0	0 0.0%		-	100			.00	
01 Apr 2011 19:29:43:000	313	1 8.3%		8.35%			1		
02 Apr 2011 07:29:43:000	0	0 0.0%		0.00%					
02 Apr 2011 07:29:43:000 02 Apr 2011 19:29:43:000	400	1 10.7%		10.67%			1		
03 Apr 2011 07:29:43:000	0	0 0.0%		0.00%			1		
03 Apr 2011 07:29:43:000 03 Apr 2011 19:29:43:000	2265			60.40%			1		
•									
04 Apr 2011 07:29:43:000	2240			59.73%			1		
04 Apr 2011 19:29:43:000	910	1 24.3%		24.27%			1		
05 Apr 2011 07:29:43:000	640	1 17.1%		17.07%			1		
05 Apr 2011 19:29:43:000	755	1 20.1%		20.13%			1		
06 Apr 2011 07:29:43:000	698	1 18.6%		18.61%			1		
06 Apr 2011 19:29:43:000	2257	1 60.2%		60.19%			1		
07 Apr 2011 07:29:43:000	1865	1 49.7%		49.73%			1		
07 Apr 2011 19:29:43:000	2234	1 59.6%		59.57%			1		
08 Apr 2011 07:29:43:000	1856	1 49.5%	0	49.49%			1		
08 Apr 2011 19:29:43:000	2587	1 69.0%		68.99%			1		
09 Apr 2011 07:29:43:000	1934	1 51.6%	0	51.57%			1		
09 Apr 2011 19:29:43:000	2216	1 59.1%	0	59.09%			1		
10 Apr 2011 07:29:43:000	2155	1 57.5%	0	57.47%			1		
10 Apr 2011 19:29:43:000	2752	1 73.4%	0	73.39%			1		
11 Apr 2011 07:29:43:000	2608	1 69.5%	0	69.55%			1		
11 Apr 2011 19:29:43:000	2534	1 67.6%	0	67.57%			1		
12 Apr 2011 07:29:43:000	1527	1 40.7%	0	40.72%			1		
12 Apr 2011 19:29:43:000	1125	1 30.0%	0	30.00%			1		
13 Apr 2011 07:29:43:000	797	1 21.3%	0	21.25%			1		
13 Apr 2011 19:29:43:000	2214	1 59.0%	0	59.04%			1		
14 Apr 2011 07:29:43:000	1511	1 40.3%		40.29%			1		
14 Apr 2011 19:29:43:000	2215	1 59.1%		59.07%			1		
15 Apr 2011 07:29:43:000	1615	1 43.1%		43.07%			1		
15 Apr 2011 19:29:43:000	1411	1 37.6%					1		
16 Apr 2011 07:29:43:000	1947	1 51.9%		51.92%			1		
16 Apr 2011 19:29:43:000	817	1 21.8%		21.79%			1		
17 Apr 2011 07:29:43:000	881	1 23.5%		23.49%			1		
17 Apr 2011 07:25:43:000	2177	1 58.1%		58.05%			1		
18 Apr 2011 07:29:43:000	2166	1 57.8%		57.76%			1		
	2223	1 59.3%					1		
18 Apr 2011 19:29:43:000									
19 Apr 2011 07:29:43:000	1845	1 49.2%		49.20%			1		
19 Apr 2011 19:29:43:000	2188	1 58.3%		58.35%			1		
20 Apr 2011 07:29:43:000	2221	1 59.2%					1		
20 Apr 2011 19:29:43:000	1580	1 42.1%		42.13%			1		
21 Apr 2011 07:29:43:000	778	1 20.7%		20.75%			1		
21 Apr 2011 19:29:43:000	1378	1 36.7%		36.75%			1		
22 Apr 2011 07:29:43:000	1119	1 29.8%		29.84%			1		
22 Apr 2011 19:29:43:000	1659	1 44.2%		44.24%			1		
23 Apr 2011 07:29:43:000	1956	1 52.2%		52.16%			1		
23 Apr 2011 19:29:43:000	1915	1 51.1%		51.07%			1		
24 Apr 2011 07:29:43:000	1869	1 49.8%					1		
24 Apr 2011 19:29:43:000	2023	1 53.9%					1		
25 Apr 2011 07:29:43:000	1989	1 53.0%		53.04%			1		
25 Apr 2011 19:29:43:000	2686	1 71.6%		71.63%	0			684	100%
26 Apr 2011 07:29:43:000	2506	1 66.8%		66.83%	0	90%		0	90%
26 Apr 2011 19:29:43:000	2728	1 72.7%		72.75%	0	80%		0	80%
27 Apr 2011 07:29:43:000	2695	1 71.9%			108	70%		0	70%
27 Apr 2011 19:29:43:000	2476	1 66.0%	0	66.03%	156	60%	1	0	60%
28 Apr 2011 07:29:43:000	915	1 24.4%	0	24.40%	132	50%	1	0	50%
28 Apr 2011 19:29:43:000	1274	1 34.0%	0	33.97%	96	40%	1	0	40%
29 Apr 2011 07:29:43:000	1101	1 29.4%	0	29.36%	192	30%	1	0	30%
29 Apr 2011 19:29:43:000	1496	1 39.9%	0	39.89%		20%	1	0	20%

30 Apr 2011 07:29:43:000	1100	1	29.3%	0	29.33%		10%	1	0	10%
30 Apr 2011 19:29:43:000	1737	1	46.3%	0	46.32%	684		1	684	
01 May 2011 07:29:43:000	1700	1	45.3%	0	45.33%			1		
01 May 2011 19:29:43:000	1769	1	47.2%	0	47.17%			1		
02 May 2011 07:29:43:000	1369	1	36.5%	0	36.51%			1		
02 May 2011 19:29:43:000	1208	1	32.2%	0	32.21%			1		
03 May 2011 07:29:43:00(959	1	25.6%		25.57%			1		
03 May 2011 19:29:43:00(1078	1			28.75%			1		
04 May 2011 07:29:43:00	862	1			22.99%			1		
04 May 2011 19:29:43:00(1113	1			29.68%			1		
05 May 2011 07:29:43:000	935	1			24.93%			1		
05 May 2011 19:29:43:000	1452	1			38.72%			1		
06 May 2011 07:29:43:000	1133	1			30.21%			1		
06 May 2011 19:29:43:00(1636	1			43.63%			1		
07 May 2011 07:29:43:00(1404	1			37.44%			1		
07 May 2011 07:29:43:00(1626	1		0	43.36%			1		
•	1564	1			41.71%			1		
08 May 2011 07:29:43:00(
08 May 2011 19:29:43:00(1710	1			45.60%			1 1		
09 May 2011 07:29:43:00(1416	1			37.76%					
09 May 2011 19:29:43:00(2572	1			68.59%			1		
10 May 2011 07:29:43:00(2329	1			62.11%			1		
10 May 2011 19:29:43:00(2853	1			76.08%			1		
11 May 2011 07:29:43:00(2809	1			74.91%			1		
11 May 2011 19:29:43:00	3221	1			85.89%			1		
12 May 2011 07:29:43:000	3107	1			82.85%			1		
12 May 2011 19:29:43:00(3176	1			84.69%			1		
13 May 2011 07:29:43:000	2910	1			77.60%			1		
13 May 2011 19:29:43:000	2973	1			79.28%			1		
14 May 2011 07:29:43:000	2643	1			70.48%			1		
14 May 2011 19:29:43:000	2538	1	67.7%	0	67.68%			1		
15 May 2011 07:29:43:000	1388	1	37.0%	0	37.01%			1		
15 May 2011 19:29:43:00(1470	1	39.2%	0	39.20%			1		
16 May 2011 07:29:43:00(1178	1	31.4%	0	31.41%			1		
16 May 2011 19:29:43:000	1255	1	33.5%	0	33.47%			1		
17 May 2011 07:29:43:000	1151	1	30.7%	0	30.69%			1		
17 May 2011 19:29:43:00(1193	1	31.8%	0	31.81%			1		
18 May 2011 07:29:43:000	1211	1	32.3%	0	32.29%			1		
18 May 2011 19:29:43:000	1442	1	38.5%	0	38.45%			1		
19 May 2011 07:29:43:000	1636	1	43.6%	0	43.63%			1		
19 May 2011 19:29:43:00(1757	1	46.9%	0	46.85%			1		
20 May 2011 07:29:43:000	1638	1	43.7%	0	43.68%			1		
20 May 2011 19:29:43:000	2642	1	70.5%	0	70.45%			1		
21 May 2011 07:29:43:000	2339	1	62.4%	0	62.37%			1		
21 May 2011 19:29:43:000	2911	1	77.6%	0	77.63%			1		
22 May 2011 07:29:43:00(2706	1	72.2%	0	72.16%			1		
22 May 2011 19:29:43:00(2766	1			73.76%			1		
23 May 2011 07:29:43:00(2184	1	58.2%		58.24%			1		
23 May 2011 19:29:43:00(3056	1			81.49%			1		
24 May 2011 07:29:43:00	2770	1			73.87%			1		
24 May 2011 19:29:43:00	3062	1			81.65%			1		
25 May 2011 07:29:43:00(2834	1			75.57%			1		
25 May 2011 19:29:43:000	3221	1			85.89%			1		
26 May 2011 07:29:43:000	2917	1			77.79%			1		
26 May 2011 19:29:43:00	2696	1			71.89%	0	100%	1	744	100%
27 May 2011 07:29:43:00	2024	1			53.97%	36	90%	1	0	90%
27 May 2011 19:29:43:00(2097	1		0	55.92%	168	80%	1	0	80%
28 May 2011 07:29:43:000	2148	1			57.28%	132	70%	1	0	70%
28 May 2011 19:29:43:00(2740	1			73.07%	60	60%	1	0	60%
29 May 2011 07:29:43:00(2747	1			73.25%	60	50%	1	0	50%
29 May 2011 17:29:43:00(2999	1			79.97%	144	40%	1	0	40%
30 May 2011 07:29:43:000	2852	1			76.05%	144	30%	1	0	30%
30 May 2011 19:29:43:000	3232	1			86.19%	144	20%	1	0	20%
31 May 2011 07:29:43:000	3125	1			83.33%		10%	1	0	10%
31 May 2011 07:29:43:000	3098	1			82.61%	744	10/6	1	744	10/0
01 Jun 2011 07:29:43:000	3243	1		_	86.48%	744		1	744	
01 Jun 2011 19:29:43:000	2882	1			76.85%			1		
02 Jun 2011 07:29:43:000	2728	1			72.75%			1		
	2873	1						1		
02 Jun 2011 19:29:43:000	20/3	1	76.6%	U	76.61%			1		

03 Jun 2011 07:29:43:000	2592	1	69.1%	0	69.12%			1	1	
03 Jun 2011 19:29:43:000	2734	1	72.9%	0	72.91%			1		
04 Jun 2011 07:29:43:000	2618	1	69.8%	0	69.81%			1		
04 Jun 2011 19:29:43:000	3253	1	86.7%	0	86.75%			1		
05 Jun 2011 07:29:43:000	2149	1	57.3%	0	57.31%			1		
05 Jun 2011 19:29:43:000	3105	1	82.8%	0	82.80%			1		
06 Jun 2011 07:29:43:000	2952	1	78.7%	0	78.72%			1		
06 Jun 2011 19:29:43:000	3053	1	81.4%	0	81.41%			1		
07 Jun 2011 07:29:43:000	2934	1	78.2%	0	78.24%			1		
07 Jun 2011 19:29:43:000	3139	1	83.7%	0	83.71%			1		
08 Jun 2011 07:29:43:000	3023	1	80.6%	0	80.61%			1		
08 Jun 2011 19:29:43:000	3162	1	84.3%	0	84.32%			1		
09 Jun 2011 07:29:43:000	2947	1	78.6%	0	78.59%			1		
09 Jun 2011 19:29:43:000	3142	1	83.8%	0	83.79%			1		
10 Jun 2011 07:29:43:000	2998	1	79.9%	0	79.95%			1		
10 Jun 2011 19:29:43:000	2676	1	71.4%	0	71.36%			1		
11 Jun 2011 07:29:43:000	2720	1	72.5%	0	72.53%			1		
11 Jun 2011 19:29:43:000 12 Jun 2011 07:29:43:000	2764 2533	1	73.7% 67.5%	0	73.71% 67.55%			1		
12 Jun 2011 07:29:43:000	2476	1	66.0%	0	66.03%			1		
13 Jun 2011 07:29:43:000	2645	1	70.5%	0	70.53%			1		
13 Jun 2011 07:29:43:000	2401	1	64.0%	0	64.03%			1		
14 Jun 2011 07:29:43:000	2159	1	57.6%	0	57.57%			1		
14 Jun 2011 19:29:43:000	2485	1	66.3%	0	66.27%			1		
15 Jun 2011 07:29:43:000	2237	1	59.7%	0	59.65%			1		
15 Jun 2011 19:29:43:000	2640	1	70.4%	0	70.40%			1		
16 Jun 2011 07:29:43:000	2651	1	70.7%	0	70.69%			1		
16 Jun 2011 19:29:43:000	2710	1	72.3%	0	72.27%			1		
17 Jun 2011 07:29:43:000	2595	1	69.2%	0	69.20%			1		
17 Jun 2011 19:29:43:000	3123	1	83.3%	0	83.28%			1		
18 Jun 2011 07:29:43:000	2924	1	78.0%	0	77.97%			1		
18 Jun 2011 19:29:43:000	3057	1	81.5%	0	81.52%			1		
19 Jun 2011 07:29:43:000	2818	1	75.1%	0	75.15%			1		
19 Jun 2011 19:29:43:000	3009	1	80.2%	0	80.24%			1		
20 Jun 2011 07:29:43:000	2831	1	75.5%	0	75.49%			1		
20 Jun 2011 19:29:43:000	2951	1	78.7%	0	78.69%			1		
21 Jun 2011 07:29:43:000	2999	1	80.0%	0	79.97%			1		
21 Jun 2011 19:29:43:000	3067	1	81.8%	0	81.79%			1		
22 Jun 2011 07:29:43:000	2916	1	77.8%	0	77.76%			1		
22 Jun 2011 19:29:43:000	3028	1	80.7%	0	80.75%			1		
23 Jun 2011 07:29:43:000	2945	1	78.5%	0	78.53%			1		
23 Jun 2011 19:29:43:000	2807	1	74.9%	0	74.85%			1		
24 Jun 2011 07:29:43:000	2578	1	68.7%	0	68.75%			1		
24 Jun 2011 19:29:43:000	2530	1	67.5%	0	67.47%			1		
25 Jun 2011 07:29:43:000	2516	1	67.1%	0	67.09%		10000	1	720	10001
25 Jun 2011 19:29:43:000	2683	1	71.5%	0	71.55%	0	100%	1	720	100%
26 Jun 2011 07:29:43:000	2633	1	70.2%	0	70.21%	36	90%	1	0	90%
26 Jun 2011 19:29:43:000	2656	1	70.8%	0	70.83%	324 300	80%	1	0	80%
27 Jun 2011 07:29:43:000	2487 3236	1	66.3% 86.3%	0	66.32% 86.30%	60	70% 60%	1	0	70% 60%
27 Jun 2011 19:29:43:000 28 Jun 2011 07:29:43:000	3044	1	86.3% 81.2%	0	86.29% 81.17%	0	60% 50%	1	0	60% 50%
28 Jun 2011 07:29:43:000 28 Jun 2011 19:29:43:000	2865	1	76.4%	0	76.40%	0	40%	1	0	40%
29 Jun 2011 07:29:43:000	2403	1	64.1%	0	64.08%	0	30%	1	0	30%
29 Jun 2011 19:29:43:000	2698	1	71.9%	0	71.95%	- 0	20%	1	0	20%
30 Jun 2011 07:29:43:000	2664	1	71.0%	0	71.04%		10%	1	0	10%
30 Jun 2011 19:29:43:000	2839	1	75.7%	0	75.71%	720	1370	1	720	20,0
			- · · · -		_					
Max>>>	3,253	578								
Added load for OS&C	1,250									
Future Peak	4,503									

Added load for OS&C	1,250
Future Peak	4,503
peak increase yr/yr	1.384
% peak increase	38.4%
Added 365-day loads	
MRI	150
IT	300

% GPM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		% BHP
100%	0	0)	0 0	0	0	0	0	0	0	0	0	0	100%
90%	0	0)	0 0	36	36	0	0	0	0	0	0	72	90%
80%	0	0)	0 0	168	324	612	504	228	0	0	0	1836	80%
70%	0	0) 2	4 108	132	300	96	204	168	84	0	0	1116	70%
60%	0	60) 6	156	60	60	24	36	192	96	48	0	792	60%
50%	12	12	. 1	2 132	60	0	12	0	120	252	36	12	660	50%
40%	0	0) 4	96	144	0	0	0	12	216	96	0	612	40%
30%	468	156	26	4 192	144	0	0	0	0	96	264	264	1848	30%
20%													0	20%
10%													0	10%
	480	228	3 40	8 684	744	720	744	744	720	744	444	276	6936	

<u>% HP</u>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			<u>% BHP</u>
100%	4	480	228	408	684	744	720	744	744	720	744	444	276	6936	100%
90%		0	0	0	0	0	0	0	0	0	0	0	0	0	90%
80%		0	0	0	0	0	0	0	0	0	0	0	0	0	80%
70%		0	0	0	0	0	0	0	0	0	0	0	0	0	70%
60%		0	0	0	0	0	0	0	0	0	0	0	0	0	60%
50%		0	0	0	0	0	0	0	0	0	0	0	0	0	50%
40%		0	0	0	0	0	0	0	0	0	0	0	0	0	40%
30%		0	0	0	0	0	0	0	0	0	0	0	0	0	30%
20%		0	0	0	0	0	0	0	0	0	0	0	0	0	20%
10%		0	0	0	0	0	0	0	0	0	0	0	0	0	10%
	4	480	228	408	684	744	720	744	744	720	744	444	276	6936	
	-	744	672	744	744	744	720	744	744	720	744	720	744		
		264	444	336	60	0	0	0	0	0	0	276	468		

FOSDICK & HILMER, Inc.

309 Vine St., Suite 50, Cincinnati, OH 45202, Tel: (513) 241-5640 http://www.fheng.com

	<u>kW-Hr</u>
100.38	-
90.34	6,504
80.31	147,449
70.27	78,421
60.23	47,702
50.7	33,462
41.45	25,367
31.74	58,656
22.37	-
12.84	-
	397,562
	<u>kW-Hr</u>
95.79	664,399
	-
	_
	-
	-
	-
	-
	-
	_
	_

FOSDICK & HILMER, Inc.

Data for input to Duke Part 2 Custom Incentive Application

CT-1 operating	•	
95.79	6936	664399.44
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
0.00	0	0.00
	6,936	664,399.44
	HR	kW-HR

	Variable speed	fan power consi	umption	•	
100%	100.38	0	0		
90%	90.34	72	6,504		
80%	80.31	1,836	147,449		
70%	70.27	1,116	78,421		
60%	60.23	792	47,702		
50%	50.70	660	33,462		
40%	41.45	612	25,367		
30%	31.74	1,848	58,656		
20%	22.37	0	0		
10%	12.84	0	0		
		6,936	397,562.04	\$0.065	
		HR	kW-HR		Cost to r

<u>SAVINGS >>></u> <u>\$17,344.43</u>