

# Evaluation of eTemp® Energy-Saving Device for Commercial Refrigerators and Freezers



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## **EXECUTIVE SUMMARY**

Upkeep Energy conducted a detailed review of the eTemp<sup>®</sup> device under a formal Measurement and Verification program as well as reviewing performance results from fifty-eight installations differing in geographic location (climate) and application (venue type). This report represents a consolidated summary of this product's technical performance review.

eTemp<sup>®</sup> is an energy saving device for commercial refrigerators (walk-in and reach-in coolers and freezers) that is designed to mimic NSF<sup>®</sup> Certified product temperature, rather than surrounding air temperature, to reduce compressor starts and run time. The studies show a reduction in energy usage ranging from 21% to 27% (average 23%) and a reduction in compressor starts ranging from 33% to 63% (average 48%). Average product temperatures were maintained or improved in all the studies and showed less fluctuation in temperature with the eTemp<sup>®</sup> product installed.

The following points are also concluded from the results:

- In all studies reviewed, there was longer average compressor run times but less total compressor run time.
- Product temperatures remained more stable and average product temperatures either remained the same or dropped after the installation of the eTemp<sup>®</sup> device.
- The study results showed a similar range in percent energy savings in different equipment types (coolers and freezers as well as walk-ins and reach-ins), in differing property types and applications (hotels, universities, convenience stores, etc.), and in differing geographic locations and climates (heating and cooling dominated climates as well as humid and dry environments).
- While the percent energy savings can be consistent across varying applications and in varying climates, the actual annual energy savings (kWh) is impacted by unit size, unit type (a freezer will use more energy than a cooler, for example), unit details (insulation levels, etc), volume of food stored in the cooler, frequency of cooler use (ie number of door openings), and climate (if the cooler is located outside).



## INTRODUCTION

Upkeep Energy is an energy consulting company that assists owners, brands, and building operators in evaluating energy product and services. Upkeep Energy has evaluated several energy and water products and services under formal Measurement and Verification (M&V) programs. This program includes a review of the product's technical performance, energy saving basis, and resulting economic performance for incorporation across the brand's portfolio. As part of the review, testing protocols that meet the International Performance Measurement and Verification Protocol (IPMVP) are developed. Installations (or pilot studies) meeting the specified IPMVP criteria are then reviewed for resulting performance.

Upkeep Energy conducted a detailed review of the eTemp<sup>®</sup> device under a formal M&V program as well as reviewing performance results from fifty-eight differing applications in varying geographic locations and climates. This report represents a consolidated summary of this product's technical performance review.

# **PRODUCT DESCRIPTION**

## Description of Product

eTemp<sup>®</sup> is an energy saving device for commercial refrigerators (walk-in and reach-in coolers and freezers). It is a product temperature sensor that upgrades your existing cooler's air-temp thermostats into product-temp thermostats. Since a food product's temperature change is more gradual than the surrounding air temperature, conventional refrigeration units that control to maintain an air temperature at set point can waste energy and run more cycles than necessary by causing the compressor to overreact to air temperature changes. This product mimics actual food temp so the current thermostat is monitoring related food temperature rather than the surrounding air temperature.

This product covers a wide band of thermal properties, as specified by the National Sanitation Foundation (NSF<sup>®</sup>), so no food and beverage product is excluded from the applicable lists of products that can use this device. In addition NSF<sup>®</sup> performed its own separate analysis which resulted in eTemp<sup>®</sup> being Certified by the NSF<sup>®</sup> for food safety as per their protocols.

This product can be installed on any refrigeration equipment including walk-in and reach-in coolers and freezers, drink coolers, prep tables, open air cases, coffin boxes, drawer units and refer trucks. This product has been currently installed in multiple application types including, but not limited to: restaurants, convenience stores, pharmacies, catering companies, schools, universities, stadiums, arenas, hotels, casinos, hospitals, refrigerated warehouses, manufacturing facilities and refrigerated trucks.

eTemp® received patent status and is protected under United States Patent No. 9,261,313.



## Product's Energy Savings Basis

Typical refrigeration systems monitor circulating air temperature in order to decide when to switch on and off. Under this type of control, refrigeration equipment typically cycles a minimum of 4 cycles per hour and, in some open display cases, 20 cycles per hour. The circulating air temperature, however, tends to rise far more quickly than food product temperature and, as a result, the refrigeration unit works harder than necessary to maintain stored products at the right temperature and leads to excessive electricity consumption and undue wear and tear on the equipment.

By controlling to food product temperature, refrigeration cycles last longer but mechanical shock (starts and stops) are reduced by an average of 48%, significantly extending equipment life. The individual cycle run times are typically longer in the eTemp<sup>®</sup> application, allowing the overall run time to be typically less (resulting in energy savings) due to the positive effect of thermal inertia.

### Product Guarantee

eTemp<sup>®</sup> has a lifetime guarantee and warrants their product against defects in materials and workmanship under normal use for as long as the product remains installed on the original refrigeration unit for which it was purchased. eTemp<sup>®</sup> also has a \$1 million product liability insurance policy that covers loss of product. As per reporting from an independent insurance company, the company has had zero liability claims in its history (see Appendix).

## MEASUREMENT AND VERIFICATION TEST PROCEDURES

The pilot or measurement and verification (M&V) studies presented in this report all followed the testing protocol outlined in the table below.

ltem	Monitoring Details
Monitored Points	Compressor power is monitored for power, cycling, and run time either at the panel or
	directly from the hot lead of the compressor. Condenser fan power is typically not
- FOWEI	monitored, thus making the results more conservative.
Monitored Points	Product temperature is monitored close to the control thermostat in order to be consistent
- Temperature	with the measuring parameters of commercial refrigeration.
	A variety of operating parameters are kept consistent during pre/post monitoring time
Miscellaneous	periods including: the volume of food, usage patterns (ie door openings), ambient
Variables	conditions (if condensers are located outside), ensuring no changes in equipment, and no
	maintenance procedures are performed.
	For each pilot study, the number of units and type of units monitored is typically chosen to
	ensure a representative sample of the property's entire equipment portfolio. The proper
Sampla Siza	sample size, based on a given total population and to ensure a confidence level of >90+%, is
Sample Size	calculated at this website: <u>http://www.vanamburggroup.com/tool-statistical-validity.php</u> .
	This is consistent with FDA testing standards that require >90% approval criteria
	(http://www.fda.gov/Drugs/ScienceResearch/ucm301281.htm).
	Sites are monitored for 1 week (pre) and 1 week (post). Shorter monitoring time frames
Monitoring time	may not capture consistent usage performance and longer monitoring times provide less
	consistency in the miscellaneous operating variables.
Monitoring	Energy (kWh) and compressor cycles are recorded with Dent Instrument loggers.
Equipment	Temperature is monitored with an Omega Engineering system.

#### Table 1 Monitoring Plan

# ANNUAL ENERGY SAVINGS CALCULATION PROCEDURES

The following describes how the pilot results are extrapolated to annual energy and carbon dioxide (CO<sub>2</sub>) savings.

- The Dent Instruments logger takes an initial power measurement (kW) and monitors compressor run time for both the pre/post periods. The Dent logger is able to log data in real time which better captures the refrigeration cyclic operation and performance.
- Energy use (kWh) is calculated as the initial power measurement x run time in the monitored period. These results are then extrapolated (assume 52 weeks/year of similar operation) to estimate annual energy usage for the unit monitored (for both the pre and post conditions).
- Per the US Environmental Protection Agency guidelines, the annual electric energy saved (kWh) is converted to CO<sub>2</sub> (metric tons) savings by multiplying annual kWh savings by 0.00076<sup>1</sup>.

<sup>&</sup>lt;sup>1</sup> EPA's Greenhouse Gas Equivalencies Calculator <u>https://www.epa.gov/energy/greenhouse-gas-equivalencies-</u> calculator



# **MEASUREMENT AND VERIFICATION TEST RESULTS**

### Summary of Results

The table below describes various project details on the installations reviewed as part of this report. "Pre" describes the baseline conditions and "Post" describes conditions with eTemp<sup>®</sup> installed. If multiple units were monitored at a listed location, an average project performance is listed. The annual energy and CO<sub>2</sub> savings listed for the units monitored. In all studies, the average product temp is maintained or improved, and all studies showed less fluctuation in temperature with the eTemp<sup>®</sup> product installed.

Property Type	Major Brand Hotel	Major Brand Hotel	Major Brand Hotel	Major Brand Hotel	Major Brand Hotel	Major Brand Hotel	Hotel Resort
Property Location	Bridgewater, NJ	Naples Beach, FL	San Francisco, CA	Honolulu, Hawaii	San Diego, CA	Wailea Beach, HI	Las Vegas, NV
Product Application (equipment # and type)	1 WIC, 1 RIC	1 WIF	1 WIC, 1 WIF, 1 RIC, 1 RIF	1 WIC, 1 RIC	1 WIC, 1 WIF, 1 RIC, 1 RIF	1 WIC, 1 WIF, 2 RIC	1 WIC, 1 WIF
Location of Equipment Condensers	Exterior	Interior	Interior	Interior	Interior	Interior	Interior
% Reduction in Compressor Starts (Post Starts ÷ Pre Starts)	53.9%	38.2%	59.9%	63.4%	44.0%	46.8%	44.6%
% Reduction in Compressor Run Time (Post Run Time ÷ Pre Run Time)	20.9%	23.6%	27.0%	21.5%	25.5%	21.1%	21.6%
Average Product Temp (Pre vs Post)	Post less then Pre	Not monitored	Post less then Pre	Post less then Pre	Post less then Pre	Post less then Pre	Post less then Pre
Annual Energy Savings (kWh)	1,828	5,382	16,824	6,284	15,775	13,646	9,469
Annual CO2 Savings (metric tons)	1.39	4.09	12.79	4.78	11.99	10.37	7.20

#### Table 2 Summary of Results (Part 1)<sup>2</sup>

 $<sup>^{2}</sup>$  The Major Brand Hotel – San Francisco study: results on the walk-in freezer and reach-in freezer showed an increase in compressor start/stops due to a short cycling event (failure of motor or frozen coil that is unrelated to the eTemp product). Despite this occurrence during the test, the results still showed a reduction in energy.



### Table 3 Summary of Results (Part 2)<sup>3</sup>

Property Type	Ice Cream Store	University	University	Casino	Arena	Convenience Stores	Catering (airlines)	Chain Restaurant
Property Location	Hoboken, NJ	Boone, NC	Tempe, AZ	Las Vegas, NV	Los Angeles, CA	West Virgina	13 different US locations	Denver, CO
Product Application (equipment # and type)	1 WIC	1 WIC, 1 WIF, 1 RIC, 1 RIF	1 RIC	1 WIC, 1 WIF, 1 RIC, 1 RIF	1 WIC, 1 WIF, 2 RIC	4 WIC, 2 WIF	13 WIC and WIF	2 WIC, 4 RIC
Location of Equipment Condensers	Interior	Exterior	Interior	Interior	Interior	Exterior	Exterior	Exterior
% Reduction in Compressor Starts (Post Starts ÷ Pre Starts)	50.2%	55.1%	32.5%	58.7%	53.1%	37.7%	40.2%	43.1%
% Reduction in Compressor Run Time (Post Run Time ÷ Pre Run Time)	24.2%	22.6%	20.8%	23.5%	24.7%	22.7%	23.5%	23.3%
Average Product Temp (Pre vs Post)	Post less then Pre	Post less then Pre	Post less then Pre	Post less then Pre (note 1)	Post less then Pre	Post less then Pre	Not monitored	Post less then Pre
Annual Energy Savings (kWh)	6,482	17,185	1,677	14,350	13,191	28,403	65,403	19,850
Annual CO2 Savings (metric tons)	4.93	13.06	1.27	10.91	10.03	21.59	49.71	15.09

<sup>&</sup>lt;sup>3</sup> The Catering (airline) – LAX study: results showed an increase in compressor start/stops due to a short cycling event (failure of motor or frozen coil that is unrelated to the eTemp product). Despite this occurrence during the test, the results still showed a reduction in energy.

## Compressor Logger Output

The chart below shows a sample output. The pre and post compressor starts, run hours, and average (longest/shortest) run time are calculated for the connected load. The individual logger outputs for each study are included in the Appendix.

Logger Serial Number:	CT11040023		Logger Serial Number:	CT11040023	
Description:	eTemp		Description:	eTemp	
Logger Reset:	5/5/2015	2:44:31 PM	Logger Reset:	5/5/2015	2:44:31 PM
Elapsed Time Since Reset:	3330.25	hrs	Elapsed Time Since Reset:	3498.25	hrs
On-Time Since Reset:	937.00	hrs (6217.9 kWh, \$870.51)	On-Time Since Reset:	937.00	hrs (6217.9 kWh, \$870.51)
Percent On Since Reset:	28.14 %		Percent On Since Reset:	26.78 %	
Constant Londo		1-147	Commented lands		1.447
Connected Load:	0.0	KVV	Connected Load:	6.6	KVV
Energy Gost:	\$ 0.14	per kwn	Energy Cost:	\$ 0.14	per kwh
Data Starts:	9/14/2015	9:00:00 AM	Data Starts:	9/21/2015	9:00:00 AM
Data Ends:	9/21/2015	9:00:00 AM	Data Ends:	9/28/2015	9:00:00 AM
Data Elapsed Time:	168.00	hrs	Data Elapsed Time:	168.00	hrs
Estimated Annual Hours On	2339	hrs (15523.8 kWh, \$2173.33)	Estimated Annual Hours On	1828	hrs (12132.2 kWh, \$1698.51)
Number of Turn Ons:	260		Number of Turn Ons:	127	
Percent On:	26.70	%	Percent On:	20.87	%
Data On-Time:	44.86	hrs (297.7 kWh, \$41.68)	Data On-Time:	35.06	hrs (232.7 kWh, \$32.57)
Average On-Time:	0.17	hrs (1.1 kWh, \$0.16)	Average On-Time:	0.28	hrs (1.8 kWh, \$0.26)
Longest On-Time:	0.85	hrs (5.6 kWh, \$0.79)	Longest On-Time:	0.67	hrs (4.5 kWh, \$0.62)
Shortest On-Time:	< 0.01	hrs (0.0 kWh, \$0.00)	Shortest On-Time:	< 0.01	hrs (0.0 kWh, \$0.00)
Number of Turn Offs:	260		Number of Turn Offs:	127	
Percent Off:	73.30	%	Percent Off:	79.13	%
Data Off-Time:	123.14	hrs	Data Off-Time:	132.94	hrs
Average Off-Time:	0.47	hrs	Average Off-Time:	1.05	hrs
Longest Off-Time:	0.69	hrs	Longest Off-Time:	2.27	hrs
Shortest Off-Time:	< 0.01	hrs	Shortest Off-Time:	0.60	hrs

Figure 1 Sample Compressor Logger Output

### Temperature Monitoring

The chart below shows a sample temperature profile. The individual temperature profiles for each study are included in the Appendix.





# Avg. Product Temp Before: 34.8 (F) Avg. Product Temp After: 34.1 (F)

#### Figure 2 Sample Temperature Profile

Some additional temperature testing was done at a major hotel installation in Bridgewater, NJ. This study monitored air and product temperature in ten locations throughout the cooler. The table below provides a legend of abbreviations and locations used in the charts. The charts below show detailed temperature monitoring and resulting compressor operation.

BBR – back bottom left BBR – back bottom right BTL – back top left

BTR – back top right

DBR – door bottom right DTL – door top left DTR – door top right

DBL – door bottom left

- Door at the door Tstat – at the thermostat (manufacturer location) that controls compressor operation
- P=Product Temp A=Air Temp

#### Findings:

- All product temps, in all locations, are kept below 40°F during the study.
- Product temps in all locations remained more stable.
- Compressor cycles less frequently in post case; while average run times are longer, total run time is reduced.





Figure 3- Post Case – A Deeper Review into Product Temps





Figure 4- Post Case – A Deeper Review

Confidential Report



Figure 5- Post Case – Thermostat Control

Confidential Report

## **CONCLUSIONS AND FINDINGS**

The studies show a reduction in energy usage ranging from 21% to 27% (average 23%) and a reduction in compressor starts ranging from 33% to 63% (average 48%). Average product temperatures were maintained or improved in all the studies and showed less fluctuation in temperature with the eTemp<sup>®</sup> product installed.

The following points are also concluded from the results:

- In all studies reviewed, there was longer average compressor run times but less total compressor run time.
- Product temperatures remained more stable and average product temperatures either remained the same or dropped after the installation of the eTemp<sup>®</sup> device. This results in improved product safety and reduces the likelihood of product temperatures exceeding 41°F where bacterial growth begins.
- The study results showed a similar range in percent energy savings in different equipment types (coolers and freezers as well as walk-ins and reach-ins).
- The study results showed a similar range in percent energy savings in differing property types and applications. For example, a hotel application can produce similar results to a university application if the coolers are used in a similar manner.
- The study results showed a similar range in percent energy savings in differing geographic locations and climates (the study covered a range of heating and cooling dominated climates as well as a range of humid and dry environments).
- When cooler/freezer condensers are located inside, the property location does not affect results nor does the timing of the pilot studies (i.e. conducted in winter or summer). This is because the condensers are contained in fairly consistent ambient conditions (i.e. maintained at typical space temperatures around 70°F). The studies also show that even when the condensers are located outside, the property location does not significantly affect the percent reduction in energy usage.
- While the percent energy savings can be consistent across varying applications and in varying climates, the actual annual energy savings (kWh) is impacted by unit size, unit type (a freezer will use more energy than a cooler, for example), unit details (insulation levels, etc), volume of food stored in the cooler, frequency of cooler use (ie number of door openings), and climate (if the cooler is located outside).

# APPENDIX

This section includes the compressor logger outputs and monitored product temperature for the pre and post scenarios for all the studies listed in Table 2 and Table 3.

Major Hotel Brand in Bridgewater, NJ







## Major Hotel Brand in Naples Beach, FL



Major Hotel Brand in San Francisco, CA

	Walk-In Cooler							
Lo	gger Serial Number: Description: Logger Reset:	CT15110081 DENT SMART L 1/27/2016	OGGER 1:06:21 PM		Logger Serial Number: Description: Logger Reset:	CT15110081 DENT SMART L 1/27/2016	OGGER 1:06:21 PM	_
apse Or Perc	d Time Since Reset: n-Time Since Reset: :ent On Since Reset:	1246.88 220.10 17.65 %	hrs (1496.7 kWh, \$263.42)		apsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	1654.88 220.10 13.30 %	hrs hrs (1496.7 kWh, \$263.42	)
	Connected Load: Energy Cost:	6.8 \$ 0.18	kW per kWh		Connected Load: Energy Cost:	6.8 \$ 0.18	kW perkWh	
:timat	Data Starts: Data Ends: Data Elapsed Time: ted Annual Hours On	3/5/2016 1 3/19/2016 336.00 2928	2:00:00 PM 12:00:00 PM hrs hrs (19912.9 kWh, \$3504.6		Data Starts: Data Ends: Data Elapsed Time: :timated Annual Hours On	3/22/2016 4/5/2016 336.00 2240	12:00:00 PM 12:00:00 PM hrs hrs (15231.5 kWh, \$2680.	7
Ň	Number of Turn Ons: Percant On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time:	251 33.43 112.32 0.45 5.66 0.10	% hrs (763.8 kWh, \$134.43) hrs (3.0 kWh, \$0.54) hrs (38.5 kWh, \$6.77) hrs (0.7 kWh, \$0.12)		Number of Turn Ons: Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time:	127 25.57 85.92 0.68 1.63 0.49	% hrs (584-2 kWh, \$102.82 hrs (4.6 kWh, \$0.81) hrs (11.1 kWh, \$1.96) hrs (3.4 kWh, \$0.59)	
×	Number of Turn Offs: Percent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	252 66.57 223.68 0.89 2.08 0.02	% hrs hrs hrs hrs		Number of Turn Offs: Percent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	127 74.43 250.09 1.97 3.94 0.40	% hrs hrs hrs hrs	

















## Major Hotel Brand in Honolulu, HI







Major Hotel Brand in San Diego, CA

	Walk-In Cooler						
Logger Elapsed Tim On-Tim Percent O	Serial Number:         CT1108001           Description:         DENT SMAI           Logger Reset:         1/1/01           e Since Reset:         134772.00           e Since Reset:         681.50           n Since Reset:         0.51 %	3 RT LOGGER 12:00:00 AM ) hrs ) hrs (4634.2 kWh, \$741.47)	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT11080016 DENT SMART LOGGER 1/1/01 12:00:00 AM 134940.00 hrs 681.50 hrs (4634.2 kWh, \$741.4 0.51 %	7)		
Co	Energy Cost: \$ 0.16	kW 8 per kWh	Connected Load: Energy Cost:	6.8 kW \$ 0.16 per kWh			
Data Estimated Ar	Data Starts:         5/10/16           Data Ends:         5/17/16           Elapsed Time:         168.00           Inual Hours On         3182	12:00:00 PM 12:00:00 PM 9 hrs 8 hrs (21637.0 kWh, \$3461.93)	Data Starts: Data Ends: Data Elapsed Time: Estimated Annual Hours On	5/17/16 12:00:00 PM 5/24/16 12:00:00 PM 168.00 hrs 2292 hrs (15587.8 kWh, \$2494	1.06		
Numbo Ave Lor Sho	ar of Turn Ons:         1276           Percent On:         36.32           Data On-Time:         61.02           rage On-Time:         0.05           ggest On-Time:         0.61           rtest On-Time:         0.61	5 5 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	Number of Turn Ons: Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time:	863 26.17 % 43.96 hrs (298.9 kWh, \$47.83) 0.05 hrs (0.3 kWh, \$0.06) 2.46 hrs (16.7 kWh, \$2.68) <0.01 hrs (0.0 kWh, \$0.00)			
Numb Ave Lor Sho	ar of Turn Offs:         1276           Percent Off:         63.66           Data Off-Time:         106.94           rage Off-Time:         0.06           gest Off-Time:         2.34           rtest Off-Time:         2.34	6 5 hrs 6 hrs 6 hrs 6 hrs	Number of Turn Offs: Percent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	863 73.83 % 124.04 hrs 0.14 hrs 18.15 hrs < 0.01 hrs			













### Major Hotel Brand in Wailea Beach, HI













## Hotel Resort in Las Vegas, NV

	Wall	k-In Cooler		
Logger Serial Number: Description: Logger Reset: apsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT 12080053 Vegas Cooler 3/12/2015 7:21:43 PM 186.50 hrs 86.20 hrs (793.0 kWh, \$55.51) 46.22 %	Logger Serial Number: Description Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT12080053 Vegas Cooler 3/12/2015 7/21:43 PM 354.97 hrs 86.20 hrs (793.0 kWh, \$55.51) 24.28 %	
Connected Load: Energy Cost:	9.2 kW \$0.07 perkWh	Connected Load: Energy Cost:	9.2 kW \$ 0.07 per kWh	
Data Siaris: Data Ends: Data Elapsed Time: :timated Annual Hours On	3/13/2015 1:52:04 PM 3/20/2015 1:52:04 PM 168.00 hrs 2186 hrs (20107.0 kWh, \$1407.4	Data Starts: Data Ends: Data Elapsed Time: Estimated Annual Hours On	3/20/2015 2:20:00 PM 3/27/2015 2:20:00 PM 168.00 hrs 1680 hrs (15458.3 kWh, \$1082.08)	
Number of Turn Ons: Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time:	392 24.95 % 41.91 hrs (385.5 kWh, \$26.99) 0.11 hrs (1.0 kWh, \$0.07) 0.92 hrs (8.5 kWh, \$0.50) 0.02 hrs (0.1 kWh, \$0.01)	Number of Turn Ons: Percent On: Data Chr-Time: Average Chr-Time: Longeat On-Time: Shortest On-Time:	171 19.18 % 32.22 hrs (266.5 kWh, \$20.75) 0.19 hrs (1.7 kWh, \$0.12) 1.03 hrs (0.5 kWh, \$0.67) 0.09 hrs (0.8 kWh, \$0.06)	
Number of Turn Offs: Percent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	392 75.05 % 126.09 hrs 0.32 hrs 2.30 hrs 0.01 hrs	Number of Turn Offs: Percent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	172 80.82 % 135.78 hrs 0.79 hrs 3.39 hrs 0.05 hrs	
	Avg. Product Tem Avg. Product Tem	p Before: 35.2 (F) mp After: 35.2 (F)	Betore Alter	
	Walk	-In Freezer		
Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT12080041 Vegas Freezer 3/12/2015 8:22:52 PM 186:45 hrs 163:60 hrs (899.8 kWh, \$62.99) 87.74 % 5.5 kW \$ 0.07 per kWh	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT12080041 Vegas Freezer 3112/2015 8:22:52 PM 354.62 hrs 163.60 hrs (699.8 kWh, \$62.99) 46.13 % 5.5 kW \$ 0.07 per kWh	
Data Starts: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Parcent On: Data CIn-Time: Average On-Time: Longest On-Time: Shortest On-Time:	3(13/2015 2:50:41 PM 3/20/2015 2:50:41 PM 168.00 hrs 4/306 hrs (2/3684.8 kWh, \$1657.93) 61 49.16 % 82.29 hrs (4/54.2 kWh, \$31.80) 1.35 hrs (7.4 kWh, \$0.52) 5.76 hrs (91.7 kWh, \$2.22) < 0.01 hrs (0.0 kWh, \$0.00)	Data Starts: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Average On-Time: Longost On-Time: Shortest On-Time:	3(20/2015 3.00:00 PM 3/27/2015 3.00:00 PM 168.00 hrs 3430 hrs (18865.3 kWh, \$1320.5 41 39.16 % 65.78 hrs (361.8 kWh, \$25.33) 1.60 hrs (8.8 kWh, \$0.82) 3.80 hrs (0.9 kWh, \$0.00) < 0.01 hrs (0.0 kWh, \$0.00)	7)
Number of Turn Offs: Percent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	61 50.84 % 85.41 hrs 1.40 hrs 4.77 hrs < 0.01 hrs	Number of Turn Offs: Parcent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shorlest Off-Time:	42 60.84 % 102.22 hrs 2.43 hrs 9.12 hrs 0.09 hrs	





Ice Cream Store in Hoboken, NJ





# University in Boone, NC

	Walk-I	n Cooler	
Logger Serial Number: Description: Logger Reset: Elapset Time Since Reset: On-Time Since Reset: Parcent On Since Reset: Connected Load: Energy Cret:	CT15110034 DENT SMART LOGGER 11/16/15 12:40:29 PM 7945.82 hrs 1880.70 hrs (13024.9 kWh, \$1302.49) 23.42 % 7.0 kW 5.0.10 por kWP	Logger Senal Number: CT15110 Description: DENT SI Logger Reset: 11/16 Elapsed Time Since Reset: 811 On-Time Since Reset: 160 Percent On Since Reset: 222 Connected Load: Energy Cast: \$	034 JART LOGGER J/15 12.40:29 PM 30.20 hrs (13024.9 kWh, \$1302.49) 93 % 7.0 kW 0.10 per kWh
Data Starts: Data Ends: Data Elapsed Time: Estimated Annual Hours On: Number of Turn Ons: Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time:	10/5/16 2:30:00 PM 10/12/16 2:30:00 PM 188.00 hrs 3653 hrs (25567.8 kWh, \$2556.78) 364 41.70 % 70.05 hrs (490.3 kWh, \$49.03) 0.18 hrs (1.3 kWh, \$0.13) 2.32 hrs (16.2 kWh, \$1.62) 0.04 hrs (0.3 kWh, \$0.03)	Data Starts: 10/12 Data Ends: 10/19 Data Elapsed Time: 16 Estimated Annual Hours On: Number of Turn Ong: Percent On: 3 Data On-Time: 4 Average On-Time: Longest On-Time: Shortest On-Time:	1/16     2:30:00 PM       1/16     2:30:00 PM       180.00 hrs     1990.6.6 kWh. \$1990.06)       197     2243 hrs (19900.6.6 kWh. \$1990.06)       197     52.45 %       45.25 hrs (381.7 kWh, \$38.17)     0.28 hrs (1.9 kWh, \$0.19)       1.02 hrs (7.1 kWh, \$0.71)     0.03 hrs (0.2 kWh, \$0.02)
Number of Turn Offs: Percent Off- Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	384 58.30 % 97.95 hrs 0.26 hrs 2.81 hrs 0.02 hrs	Number of Tum Offs: Percent Off: ( Data Off-Tima: 11 Averago Off-Tima: Longest Off-Tima: Shortest Off-Tima:	197 37.55 % 3.48 hrs 0.58 hrs 3.54 hrs 0.19 hrs
	Avg. Product Temp B	efore: 37.0 (F)	Before After
	Avg. Product Temp	After: 36.9 (F)	
Logger Serial Number:	CT15110087 DENT SMART LOGGER	Logger Serial Number: CT151'	10087 SNAPT I OCCEP
Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	12/28/15 2:23:55 PM 6936:10 hrs 1221:90 hrs (14174.0 kWh, \$1459:93) 17:62 %	Logger Reset: 12/ Elapsed Time Since Reset: 7 On-Time Since Reset: 1 Percent On Since Reset: 1	28/15 2:23:55 PM 104.10 hrs 221.90 hrs 7.20 %
Data Statis Data Ends Data Ends Data Elapsed Time: Estimated Annual Hours On: Number of Tum One:	5 0.10 per KWh 10/5/16 2:30:00 PM 10/12/16 2:30:00 PM 168:00 hrs 2982 hrs (34593.1 kWh, \$3563.09) 514	Data Starts: 10/ Data Starts: 10/ Data Ends: 10/ Data Elapsed Time: Estimated Annual Hours On:	11.5 KW \$0.10 per KWh 12/16 2:30:00 PM 19/16 2:30:00 PM 188.00 hrs 2346 hrs (27216.2 KWh, \$2803.27) 238
Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time: Number of Turn Offs: Percent Off:	34.04 % 57.19 hrs (663.4 kWh, \$68.33) 0.11 hrs (1.3 kWh, \$0.13) 2.19 hrs (25.4 kWh, \$2.61) < 0.01 hrs (0.0 kWh, \$0.00) 515 65.96 %	Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time: Number of Tum Offs: Percent Off:	26.78 % 45.00 hrs (52.0 kWh, \$53.76) 0.19 hrs (52.0 kWh, \$50.23) 2.73 hrs (31.7 kWh, \$3.26) < 0.01 hrs (0.0 kWh, \$0.00) 237 73.22 %
Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	110.81 nrs 0.22 hrs 0.82 hrs 0.06 hrs	Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	12.500 ms 0.52 hrs 2.80 hrs < 0.01 hrs









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University in Tempe, AZ
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	Reach-In Cooler						
Lagger Se La Elapsed Time S On-Time S Percent On S	ial Number: CT15080035 Description: DENT SMART1 gger Reset: 8/18/2015 ince Reset: 28560 ince Reset: 199.20 ince Reset: 6.97 %	LOGGER 7:57:07 AM 9 hrs 0 hrs (478.1 kWh, \$52.59) 5	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT15080035 DENT SMART LOGGER &/18/2015 7:57:07 AM 3216:03 hrs 199:20 hrs (478:1 kWh, \$52:59) 6:19 %			
Conn	ected Load: 2.4 nergy Cost: \$ 0.1	kW perkWh	Connected Load: Energy Cost:	2.4 kW \$0.11 perkWh			
Data El: istimated Annu	Data Starts: 12/8/2015 Data Ends: 12/15/2015 upsed Time: 168.00 al Hours On 3358	8:00:00 AM 8:00:00 AM 0 hrs 9 hrs (8061.4 kWh, \$886.75	Data Starts: Data Ends: Data Elapsed Time: Estimated Annual Heurs On	12/23/2015 8:00:00 AM 12/30/2015 8:00:00 AM 168:00 hrs 2660 hrs (6384.4 kWh, \$702.2	B)		
Number o Da Averag Longe Shorte	f Tum Ons: 77 Percent On: 38.34 a Cn-Time: 64.43 e Cn-Time: 0.89 at Cn-Time: 1.38 at Cn-Time: 0.30	7 5 2 hrs (154.6 k/Wh, \$17.01) 1 hrs (2.0 k/Wh, \$0.22) 5 hrs (3.3 k/Wh, \$0.36) 3 hrs (0.8 k/Wh, \$0.09)	Number of Turn Ons: Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time:	52 30.37 % 51.02 hrs (122.4 kWh, \$13.47) 0.98 hrs (2.4 kWh, \$0.26) 1.39 hrs (3.3 kWh, \$0.37) 0.89 hrs (2.1 kWh, \$0.24)			
Number o Da Averaç Longe Shorte	t Tum Offs:         7/i           Percent Off:         61.6/i           a Off-Time:         103.5/i           e Off-Time:         1.3/i           st Off-Time:         5.2/i           st Off-Time:         1.0/i	5 3 % 3 hrs 3 hrs 9 hrs 7 hrs	Number of Turn Offs: Percent Off: Data Off-Time: Average Off-Time: Longest Off-Time: Shortest Off-Time:	52 69.63 % 116.98 hrs 2.25 hrs 4.71 hrs 1.13 hrs			





### Casino in Las Vegas, NV













## Stadium Arena in Los Angeles, CA

	Wal	k-In Cooler		
Logger Serial Numbe Description Logger Rese Elapsed Time Since Rese On-Time Since Rese Percent On Since Rese Connected Load Energy Cos Data Start Data End Data Elapsed Tim Estimated Annual Hours O Number of Tum On Percent O Data On-Tim Average On-Tim Shortast On-Time	Wal           r:         CT11120090           x:         Dent Smart Logger           1:36:33 PM           2903.88 hrs           t         2903.88 hrs           t         731.90 hrs (8929.2 kWh, \$1339.38)           t         25.20 %           t         12.2 kW           t         \$0.15 per kWh           s:         7/1/16           x:         7/1/16           x:         7/1/16           x:         7/1/16           x:         7/1/16           x:         168.00 hrs           1941 hrs (23674.9 kWh, \$3551.24)           x:         410           x:         37.22 hrs (454.0 kWh, \$368.11)           x:         0.09 hrs (1.1 kWh, \$0.17)           x:         0.70 hrs (8.8 kWh, \$1.29)           x:         <0.01 hrs (0.0 kWh, \$0.00)	K-In Cooler Logger Serial Number: Description: Logger Reset: Logger Reset: On-Time Since Reset: On-Time Since Reset: On-Time Since Reset: On-Time Since Reset: Connected Load: Energy Cost: Data Starts: Data Ends: Data Ends: Data Elapsed Time: Stortast On-Time: Shortast On-Time: Shortast On-Time:	CT11120090 Dent Smart Logger 3/9/16 1:36:33 PM 3263.88 hrs 731.90 hrs (6929.2 kWh, \$1339.38) 22.42 % 12.2 kW \$ 0.15 per kWh 7/16/16 1:30:00 PM 7/23/16 1:30:00 PM 168.00 hrs 1509 hrs (18405.9 kWh, \$2760.89 166 17.22 % 28.93 hrs (353.0 kWh, \$2760.89 0.17 hrs (21 kWh, \$0.32) 0.94 hrs (11.5 kWh, \$1.73) < 0.01 hrs (0.0 kWh, \$0.00)	
Number of Turn Offs Percent Of	s: 411 f: 77.85 %	Number of Turn Offs: Percent Off:	167 82.78 %	
Data Off-Time Average Off-Time	a: 130.78 hrs a: 0.32 hrs	Data Off-Time: Average Off-Time:	139.07 hrs 0.83 hrs	
Longest Off-Time Shortest Off-Time	a: 1.39 hrs	Longest Off-Time: Shortest Off-Time:	4.71 hrs	
andrest or min	2. 50.01 118	Shortest Oil-Time.	0.02 116	
	Avg. Product Tem	p Before: 38.3 (F) mp After: 38.2 (F)	- Before - After 	
	Wall	k-In Freezer		
Logger Serial Numb Descriptio Logger Res Elepsed Time Since Res On-Time Since Res Percent On Since Res Connected Loa Energy Co	er: CT11100026 n: DentSmart Logger tt 10/2/12 9:08:26 PM st 32993.35 hrs et 50:50 hrs (350.3 kWh, \$52.55) st: 0.17 % d: 6.2 kW st: \$ 0.15 per kWh	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT11100026 Dent Smart Loger 10/2/12 9:06:26 PM 33353.35 hrs 56:50 hrs (350.3 kWh, \$52:55) 0.17 % 6:2 kW \$ 0.15 per kWh	
Data Star Data Enc Data Elapsed Tim Estimated Annual Hours ( Number of Turn On Parcent O Data On-Tim Longest On-Tim Shortest On-Tim Number of Turn Off Parcent O Data Off-Tim	s: 7/1/16 2:30:00 PM s: 7/8/16 2:30:00 PM e: 166:00 hrs 2184 hrs (13541.9 kWh, \$2031.28 s: 563 n: 24.93 % e: 41.89 hrs (259.7 kWh, \$38.96) e: 0.07 hrs (0.5 kWh, \$0.07) e: 1.87 hrs (11.6 kWh, \$1.74) e: 0.05 hrs (0.3 kWh, \$0.04) s: 564 ff: 75.07 % e: 126.11 hrs	Data Starts: Data Ends: Data Ends: Estimated Annual Hours On Number of Turn Ons: Percent On: Data On-Time: Average On-Time: Longest On-Time: Shortest On-Time: Number of Turn Offs: Percent Off: Data Off-Time:	7/16/16 2:30:00 PM 7/23/16 2:30:00 PM 168.00 hrs 1602 hrs (9929.5 kWh, \$1489.43) 369 18.28 % 30.71 hrs (190.4 kWh, \$28.56) 0.08 hrs (0.5 kWh, \$0.06) 2.14 hrs (13.2 kWh, \$1.99) 0.07 hrs (0.4 kWh, \$0.06) 370 81.72 % 137.29 hrs	
Average Off-Tim Longest Off-Tim Shortest Off-Tim	e: 0.22 hrs e: 1.04 hrs	Average Off-Time: Longest Off-Time:	0.37 hrs 2.27 hrs 0.02 hrs	
onontest Off- Inff	0. 50.01 110	Shortest Off-Time:	0.02 110	









### Convenience Stores in West Virginia

Walk-I	1 Cooler	
CT14050066 DENT SMART LOGGER 10/15/2014 8:54:55 AM 2642.08 hrs 568.80 hrs (3526.6 kWh, \$352.66) 21.53 %	Logger Serial Number:         CT14050068           Description:         DENT SMART LOGGER           Logger Festet:         10/15/2014         8:54:55 AM           Elapsed Time Since Reset:         2810.53         hrs           On-Time Since Reset:         568.60         hrs           On-Time Since Reset:         280.0 hrs         (3526.6 kWh, \$352.66)           Percent On Since Reset:         20.24 %         %	
6.2 kW \$0.10 per kWh	Connected Load: 6.2 kW Energy Cost: \$ 0.10 per kWh	
1/26/2015 11:00:00 AM 2/2/2015 11:00:00 AM 168:00 hrs 2987 hrs (18518.8 kWh, \$1851.8	Data Starts:         2/2/2015         11.30:00 AM           Data Ends:         2/9/2015         11.130:00 AM           Data Elapsed Time:         168.00 hrs           Estimated Annual Hours On         2311 hrs	0
1237 34.10 % 57.28 hrs (355.2 kWh, \$35.52) 0.05 hrs (0.3 kWh, \$0.03) 1.20 hrs (0.3 kWh, \$0.80) < 0.01 hrs (0.0 kWh, \$0.00)	Number of Turn Ons:         627           Percent On:         26,38 %           Data On-Time:         44.32 hrs (274.8 kWh, \$27.48)           Average On-Time:         0.07 hrs (0.4 kWh, \$0.04)           Longest On-Time:         0.81 hrs (5.0 kWh, \$0.50)           Shortest On-Time:         < 0.01 hrs (0.0 kWh, \$0.00)	
1238 65.90 % 110.72 hrs 0.09 hrs 5.09 hrs < 0.01 hrs	Number of Turn Offs:         628           Percent Off:         73.62         %           Data Off-Time:         123.68         hrs           Average Off-Time:         0.20         hrs           Longest Off-Time:         3.41         hrs           Shortiest Off-Time:         <0.01	
	Walk-In           CT14050068           DENT SMART LOGGER           10/15/2014         8:54:55 AM           2642.08 hrs         568.80 hrs           568.80 hrs         (3526.6 kWh, \$352.66)           21.33 %         6.2 kW           \$ 0.10 per kWh         1/26/2015           1/26/2015         11:00:00 AM           2/2/2015         11:00:00 AM           1/2/27         34.10 %           34.10 %         57.28 hrs           0.05 hrs         (0.0 kWh, \$0.00)           1/238         65.90 %           110.72 hrs         0.00 hrs           0.09 hrs         5.09 hrs           0.00 hrs         5.09 hrs           0.00 hrs         5.09 hrs           0.01 hrs         0.01 hrs	Walk-In Cooler           CT14050068           DENT SMART LOGGER         Description:         CT14050068           DENT SMART LOGGER         Description:         DENT SMART LOGGER           1015/2014         8:54:55 AM         Description:         101/s/2014         8:54:55 AM           2642.08 hrs         568.80 hrs (5526.6 kWh, \$352.66)         21:53 %         Connected Load:         528.00 hrs (5526.6 kWh, \$352.66)           21:53 %         0n-Time Since Reset:         2024 %         2024 %           6.2 kW         \$0.10 per kWh         Energy Cost:         \$0.10 per kWh           1/202015         11:00:00 AM         Data Ends:         2/2/2015         11:30:00 AM           2/2/2015         11:30:00 AM         Data Ch-Time:         44:32         hrs (43/27.1 kWh, \$1/432.71           1237         34:10 %         50:30         Contracted Tum Ons:         627           34:10 %         Seb:0 kWh, \$0.30)         Contrest On-Time:

















## Airline Catering in Various Locations

Philadelphia, PA (PHL)								
	Logger Serial Number: Description:	CT08060029 eTemp			Logger Serial Number: Description:	CT08080029 eTemp		
	Logger Reset:	12/8/2014 1	:35:19 PM		Logger Reset:	12/8/2014	1:35:19 PM	
	Elapsed Time Since Reset:	355.40 hrs			Elapsed Time Since Reset:	595.40	hrs	
	On-Time Since Reset:	394.70 hrs	(2447.1 kWh, \$269.19)		On-Time Since Reset:	394.70	hrs (2447.1 kWh, \$269.19)	
	Percent On Since Reset:	111.06 %			Percent On Since Reset:	66.29 %		
	Connected Load:	6.2 kW			Connected Load:	6.2	kW	
	Energy Cost:	\$0.11 perk	kWh		Energy Cost:	\$ 0.11	per kWh	
	Data Starts:	12/16/2014 9	MA 00:00:		Data Starts:	12/26/2014	MA 00:00:8	
	Data Ends:	12/23/2014 9	MA 00:00:		Data Ends:	1/2/2015	MA 00:00:8	
	Data Elapsed Time:	168.00 hrs			Data Elapsed Time:	168.00	hrs	
	stimated Annual Hours On	5344 hrs	(33130.9 kWh, \$3644.39)		Estimated Annual Hours On	4158	hrs (25/80.0 kWh, \$2835.8	0)
	Number of Turn Ons:	704			Number of Turn Ons:	389	,	•
	Percent On:	61.00 %			Percent On:	47.47	%	1
	Data On-Time:	102.48 hrs	(635.4 kWh, \$69.89)		Data On-Time:	79.74	hrs (494.4 kWh, \$54.39)	1
	Average On-Time:	0.15 hrs	(0.9 kWh, \$0.10)		Average On-Time:	0.20	hrs (1.3 kWh, \$0.14)	
	Longest On-Time:	1.83 hrs	(11.4 kWh, \$1.25)		Longest On-Time:	3.05	hrs (18.9 kWh, \$2.08)	
	Shortest On-Time:	0.07 hrs	(0.4 KWh, \$0.05)		Shortest On-Time:	< 0.01	hrs (0.0 kWh, \$0.00)	
	Number of Turn Offis:	704			Number of Turn Offs:	388		
	Percent Off:	39.00 %			Percent Off:	52.53	%	
	Data Off-Time:	65.52 hrs			Data Off-Time:	88.26	hrs	1
	Average Off-Time:	0.09 hrs			Average Off-Time:	0.23	hrs	
	Longest Off-Time:	0.59 hrs			Longest Off-Time:	0.71	hrs	1
	Shortest Off-Time:	0.07 hrs			Shortest Off-Time:	< 0.01	hrs	F
			Washing	ton, D	9.C. (IAD)			
	Logger Serial Number:	GT10040045	Washing	ton, D	D.C. (IAD)	CT10040045		
	Logger Serial Number: Description:	CT10040045 eTemp	Washing	ton, D	D.C. (IAD)	CT10040045 eTemp	9-11-04 DM	
	Logger Serial Number: Description: Logger Reset: Elansed Time Since Reset:	CT10040045 eTemp 12/8/2014 3 377 80 bra	Washing 3:11:04 PM	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset:	CT10040045 eTemp 12/8/2014 593.80	3:11:04 PM	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset:	GT10040045 eTemp 12/8/2014 3 377.80 hrs 234.20 hrs	Washing 3:11:04 PM (1217.8 kWb, \$133.96)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset:	CT10040045 eTemp 12.8/2014 593.80 234.20	3:11:04 PM hrs hrs (1217.8 kWb, \$133.96)	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT10040045 eTemp 12/8/2014 3 377.80 hrs 234.20 hrs 61.99 %	Washing 3:11:04 PM (1217.8 kWh, \$133.96)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Feset: On-Time Since Feset: Percent On Since Feset:	CT10040045 eTemp 12)8/2014 593.80 234.20 39.44 %	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96)	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load:	CT10040045 eTemp 12.8/2014 377.80 hrs 234.20 hrs 61.99 % 5.2 kW	Washing 3:11:04 PM (1217.8 kWb, \$133.96)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Lead:	CT10040045 eTemp 12/8/2014 593.80 234.20 39.44 % 5.2	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cast:	CT10040045 eTemp 12.8/2014 3 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per	Washing 3:11:04 PM (1217.8 kWb, \$133.96) kWh	ton, D	C.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT 10040045 eTemp 12.8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11	3:11:04 PM hra hrs (1217.8 kWh, \$133.96) kW per kWh	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts:	CT10040045 eTemp 12/8/2014 3 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014	Washing 3:11:04 PM (1217.8 kWb, \$133.96) kWh 9:00:00 AM	ton, D	C.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Recet: On-Time Since Recet: Percent On Since Reset: Connected Load: Energy Cest: Data Starts:	CT10040045 eTemp 12/8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00.00 AM	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Cannected Load: Energy Cast: Data Starts: Data Starts: Data Ends:	CT10040045 eTemp 12.8/2014 1 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Ends:	CT10040045 eTemp 12/8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2015	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM 9:00:00 AM	<u></u>
	Logger Serial Number: Description: Logger Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Etapset Time:	CT10040045 eTemp 12/8/2014 3 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 18.00 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cest: Data Starts: Data Starts: Data Elapsed Time:	CT10040045 eTemp 12.8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2015 168.00	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh ser kWh 9:00:00 AM hrs	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Cannacted Load: Energy Cost: Data Starts: Data Enass. Data Elapsed Time: Estimated Annual Hours On	CT 10040045 eTemp 12/8/2014 3 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 188.00 hrs 3655 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67)	ton, D	C.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Etapsed Time: Estimated Annual Hours On	CT10040045 eTemp 12.8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 1/2/2015 168.00 2710	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs hrs (14093.4 kWh, \$1550.2)	n)
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Elapsed Time Estimated Annual Hours On	CT10040045 eTemp 12/8/2014 3 377.80 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 188.00 hrs 3955 hrs 3955 hrs	Washing 3:11:04 PM (1217.8 kWb, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWb, \$2090.67)	ton, D	C.C. (IAD) Logger Serial Number: Description: Logger Feset: Con-Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cest: Data Starts: Data Elapsed Time: Estimated Annual Hours On	CT10040045 eTemp 12.8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 12/26/2015 168.00 2710	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM 9:00:00 AM hrs (14093.4 kWh, \$1550.2	n.
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Cannacted Load: Energy Cast: Data Starts: Data Etats: Data Ends: Data Ends: Estimated Annual Hours On Number of Tum Ons:	CT10040045 eTemp 12/8/2014 1 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 12/24/2014 158.00 hrs 3655 hrs 246 41.72 %	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Ends: Data Ends: Data Ends: Data Ends: Data Ends: Data Hours On Number of Tum Ons: Percent On:	CT10040045 eTemp 12/8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 12/26/2014 12/26/2014 1568.00 2710 76 3.094	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs hrs (14093.4 kWh, \$1550.2	7]
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Cannacted Load: Energy Cost: Data Starts: Data Entase Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percertion: Data On-Time:	CT10040045 eTemp 12.8/2014 3 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 18.00 hrs 3655 hrs 246 41.72 % 70.10 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (364.5 kWh, \$40.09)	ton, D	C.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Starts: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Percert On: Data On-Time:	CT10040045 eTemp 12/8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2015 168.00 2710 76 30.94 51.98	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs hrs (14093.4 kWh, \$1550.2 % hrs (270.3 kWh, \$29.73)	n)
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Average On-Time:	CT10040045 eTemp 12/8/2014 1 377.80 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 188.00 hrs 3655 hrs 246 41.72 % 70.10 hrs 0.28 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (364.5 kWh, \$40.09) (1.5 kWh, \$40.09)	ton, D	C.C. (IAD) Logger Serial Number: Description: Logger Feset: Con-Time Since Reset: Percent On Since Reset: Percent On Since Reset: Connected Load: Energy Cest: Data Starts: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Average On-Time:	CT10040045 eTemp 12/8/2014 593.80 234.20 33.44 % 5.2 \$ 0.11 12/26/2014 12/26/2015 168.00 2710 76 30.94 51.98 0.68	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM 9:00:00 AM hrs (14093.4 kWh, \$1550.2 % hrs (270.3 kWh, \$29.73) hrs (2.6 kWh, \$39.39)	7)
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cest: Data Starts: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Longed On-Time:	CT10040045 eTemp 12/8/2014 1 377.80 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 12/24/2014 12/24/2014 158.00 hrs 3655 hrs 246 41.72 % 70.10 hrs 0.28 hrs 3.53 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM (19006.1 kWh, \$2090.67) (15 kWh, \$40.09) (1.5 kWh, \$40.09) (1.5 kWh, \$20.2]	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Peset: On-Time Since Peset: Percent On Since Peset: Connected Load: Energy Cost: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data Con-Time: Average On-Time: Longost On-Time:	CT10040045 eTemp 12/8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 15/88 0.68 0.68	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs (14093.4 kWh, \$1550.2 % hrs (14093.4 kWh, \$1550.2) hrs (3.6 kWh, \$0.39) hrs (3.6 kWh, \$1.53)	7)
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Cannected Load: Energy Cost: Data Starts: Data Starts: Data Elapsed Time Estimated Annual Hours On Number of Tim Ons: Percent On: Data On-Time: Loverage On-Time:	CT10040045 eTemp 12/8/2014 1 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 158.00 hrs 3655 hrs 246 41.72 % 70.10 hrs 0.28 hrs 3.53 hrs 0.55 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (1.5 kWh, \$40.09) (1.5 kWh, \$2.02] (0.3 kWh, \$0.03)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Etagsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Longost On-Time: Longost On-Time: Shortest On-Time:	CT10040045 eTemp 12.8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 15.80 2710 76 6.30.94 51.98 0.68 2.67 < 0.01	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs hrs (14093.4 kWh, \$1560.2 % hrs (270.3 kWh, \$29.73) hrs (12.0 kWh, \$1.53) hrs (0.0 kWh, \$1.53) hrs (0.0 kWh, \$0.00)	7)
	Logger Serial Number: Description: Logger Reset: On-Time Since Reset: On-Time Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Endse: Estimated Annual Hours On Number of Tum Ons: Percent On: Data Chr. Time: Average On-Time: Longeat On-Time: Shortest On-Time:	CT10040045 eTemp 12.8/2014 3 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 158.00 hrs 3655 hrs 246 41.72 % 70.10 hrs 3.53 hrs 0.28 hrs 3.53 hrs 0.05 hrs 245	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (364.5 kWh, \$2090.67) (364.5 kWh, \$2090.67) (15.4 kWh, \$2090.67)	ton, D	D.C. (IAD)	CT10040045 eTemp 12.8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 12/26/2014 12/26/2014 168.00 2710 766 30.94 51.98 0.68 2.67 < 0.01	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs hrs (14093.4 kWh, \$1550.2 % hrs (14093.4 kWh, \$1550.2 hrs (13.6 kWh, \$0.39) hrs (13.9 kWh, \$1.53) hrs (0.0 kWh, \$0.00)	7)
	Logger Serial Number: Description: Logger Reset: Elapsed Timo Since Reset: On-Timo Since Reset: Percent On Since Reset: Connacted Load: Energy Cost: Data Starts: Data Endse: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Percert On: Data On-Time: Longest On-Time: Shortest On-Time: Shortest On-Time: Number of Tum Offs: Percent Off:	CT10040045 eTemp 12.8/2014 1 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 168.00 hrs 3655 hrs 246 41.72 % 70.10 hrs 0.28 hrs 3.53 hrs 0.05 hrs 245 58.28 %	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (364.5 kWh, \$40.09) (1.5 kWh, \$2.02) (0.3 kWh, \$0.03)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: On-Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cast: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data Cn-Time: Longost On-Time: Shortest On-Time: Number of Tum Offs: Parcent Off:	CT10040045 eTemp 12,8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 11/2/2015 168.00 2710 76 30.94 51.98 0.68 2.67 < 0.01 77 69.06	3:11:04 PM hra hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs hrs (14093.4 kWh, \$1560.2 % hrs (270.3 kWh, \$153) hrs (13.0 kWh, \$0.39) hrs (13.0 kWh, \$0.00) %	7)
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Average On-Time: Shortest On-Time: Shortest On-Time: Number of Tum Offs: Percent Off: Data Off-Time:	CT10040045 eTemp 12/8/2014 3 377.80 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 188.00 hrs 3855 hrs 246 41.72 % 70.10 hrs 0.28 hrs 3.53 hrs 0.05 hrs 245 58.28 % rs	Washing 3:11:04 PM (1217.8 kWb, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (364.5 kWh, \$0.16) (1.5 kWh, \$0.16) (1.5 kWh, \$0.16) (1.5 kWh, \$0.03)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: Logger Feset: On-Time Since Reset: Percent On Since Reset: Cannected Load: Energy Cost Data Starts: Data Ends: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Average On-Time: Average On-Time: Shortest On-Time: Number of Tum Offs: Parcent Off: Data Off-Time: Number of Tum Offs: Parcent Offs: Parc	CT10040045 eTemp 12/8/2014 593.80 234.20 33.44 % 5.2 \$ 0.11 12/26/2014 12/26/	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM 9:00:00 AM hrs hrs (14093.4 kWh, \$1550.2) % hrs (2.6 kWh, \$1.53) hrs (13.9 kWh, \$1.53) hrs (0.0 kWh, \$0.00) % hrs	n
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Connacted Load: Energy Cost: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data Chr. Time: Average On-Time: Number of Tum Offs: Percent Off: Data Off-Time: Number of Tum Offs: Percent Off: Data Off-Time: Average Off-Time:	CT10040045 eTemp 12.8/2014 3 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 138.00 hrs 3655 hrs 246 41.72 % 70.10 hrs 0.28 hrs 3.53 hrs 0.05 hrs 245 58.28 % 97.00 hrs 0.40 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (364.5 kWh, \$2090.67) (364.5 kWh, \$2090.67) (15.4 kWh, \$2090.67)	ton, D	D.C. (IAD)	CT10040045 eTemp 12.8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 12/26/2014 15.98 0.68 2.67 < 0.01 77 69.06 116.02 1.51	3:11:04 PM hrs hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM hrs hrs (14093.4 kWh, \$1550.2 % hrs (14093.4 kWh, \$1550.2 % hrs (13.0 kWh, \$1.53) hrs (13.0 kWh, \$1.53) hrs (13.0 kWh, \$1.53) hrs (13.0 kWh, \$0.00) %	7)
	Logger Serial Number: Description: Logger Reset: On-Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connacted Load: Energy Cost: Data Starts: Data Endss: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data Con-Time: Shortest On-Time: Shortest On-Time: Shortest On-Time: Number of Tum Offs: Percent Off: Data Off-Time: Average Of	CT10040045 eTemp 12/8/2014 1 377.80 hrs 234.20 hrs 61.99 % 5.2 kW \$ 0.11 per 12/17/2014 12/24/2014 168.00 hrs 3655 hrs 246 41.72 % 70.10 hrs 0.28 hrs 3.53 hrs 0.05 hrs 245 58.28 % 97.90 hrs 0.40 hrs 1.32 hrs 0.40 hrs	Washing 3:11:04 PM (1217.8 kWh, \$133.96) kWh 9:00:00 AM 9:00:00 AM (19006.1 kWh, \$2090.67) (364.5 kWh, \$40.09) (1.5 kWh, \$40.09) (1.5 kWh, \$2.02] (0.3 kWh, \$0.03)	ton, D	D.C. (IAD) Logger Serial Number: Description: Logger Feset: Logger Feset: On-Time Since Reset: On-Time Since Reset: Connected Load: Energy Cast: Data Starts: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data Cn-Time: Average On-Time: Shortest On-Time: Shortest On-Time: Number of Tum Otts: Parcent Off: Data Off-Time: Average Off-Time: Average Off-Time: Average Off-Time: Congest Off-Tim	CT10040045 eTemp 12,8/2014 593.80 234.20 39.44 % 5.2 \$ 0.11 12/26/2014 11/2/2015 168.00 2710 76 30.94 51.98 0.68 2.67 < 0.01 77 69.06 116.02 1.51 7.53 7.53 7.53 7.55 7.55 7.55 7.55 7.55	3:11:04 PM hra hrs (1217.8 kWh, \$133.96) kW per kWh 9:00:00 AM 9:00:00 AM hrs hrs (14093.4 kWh, \$1560.2 % hrs (270.3 kWh, \$29.73) hrs (13.8 kWh, \$29.73) hrs (13.8 kWh, \$1.53) hrs (13.9 kWh, \$0.00) % hrs hrs hrs hrs hrs	7)



Charlotte, NC (CLT)						
1	Logger Serial Number:	CT10110052		Logger Serial Number:	CT10110052	
	Description:	eTemp		Description:	eTemp	
	Logger Reset:	12/6/2014 12:36:56 PM		Logger Reset:	12/6/2014 12:36:56 PM	
E	lapsed Time Since Reset:	428.38 hrs		Elapsed Time Since Reset:	644.38 hrs	
	Percent On Since Reset:	276.30 hrs (1160.5 kwn, \$127.65) 64.50 %		Percent On Since Reset:	42.88 %	
	i aroni on onice riceat.	01.0010		i crosti on ensorricost.	12.00 10	
	Connected Load:	4.2 kW		Connected Load:	4.2 kW	
	Energy Cost:	\$ 0.11 per kWh		Energy Cost:	\$ 0.11 per kWh	
	Data Starts:	12/17/2014 9:00:00 AM		Data Starts:	12/26/2014 9:00:00 AM	
	Data Ends:	12/24/2014 9:00:00 AM		Data Ends:	1/2/2015 9:00:00 AM	
	Data Elapsed Time:	168.00 hrs		Data Elapsed Time:	168.00 hrs	
=	stimated Annual Hours On	4289 hrs (18012.2 kWh, \$1981.34)		Estimated Annual Hours On	3365 hrs (14133.6 kWh, \$1554.69)	
	Number of Turn Ons:	317		Number of Turn Ons:	278	
	Percent On:	48.96 %		Percent On:	38.41 %	
	Data On-Time:	82.25 hrs (345.4 kWh, \$38.00)		Data On-Time:	64.54 hrs (271.1 kWh, \$29.82)	
	Average On-Time:	0.26 hrs (1.1 kWh, \$0.12)		Average On-Time:	0.23 hrs (1.0 kWh, \$0.11)	
	Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)		Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$1.03)	
					•••••	
	Number of Turn Offs:	317		Number of Turn Offs:	278	
	Percent Off:	51.04 %		Percent Off:	61.59 %	
	Average Off-Time:	0.27 hrs		Average Off-Time:	0.97 hrs	
	Longest Off-Time:	0.74 hrs		Longest Off-Time:	3.45 hrs	
	Shortest Off-Time:	< 0.01 hrs		Shortest Off-Time:	< 0.01 hrs	
	•		-1 . 1	(5.61.6.)		
		Miami,	Florid	a (IMIA)		
	Logger Serial Number:	CT11120090		Logger Serial Number:	CT11120090	
	Logger Reset:	12/22/2011 9:20:13 AM		Logger Reset:	12/22/2011 9:20:13 AM	
	Elapsed Time Since Reset:	26375.65 hrs		Elapsed Time Since Reset:	26567.65 hrs	
	On-Time Since Reset:	449.40 hrs (2516.6 kWh, \$276.83)		On-Time Since Reset:	449.40 hrs (2516.6 kWh, \$276.83)	
	Percent On Since Reset:	1.70 %		Percent On Since Reset:	1.69 %	
	Connected Load:	5.6 kW		Connected Load:	5.6 kW	
	Energy Cost:	\$0.11 perkWh		Energy Cost:	\$0.11 perkWh	
	Data Starts: Data Ender	12/18/2014 9:00:00 AM		Data Starts:	1/2/2015 9:00:00 AM	
	Data Elapsed Time:	168.00 hrs		Data Elapsed Time:	168.00 hrs	
i	Estimated Annual Hours On	4942 hrs (27675.7 kWh, \$3044.32)		Estimated Annual Hours On	3804 hrs (21301.6 kWh, \$2343.18	
	Percent On:	56.42 %		Percent On:	43.42 %	
	Data On-Time:	94.78 hrs (530.8 kWh, \$58.38)		Data On-Time:	72.95 hrs (408.5 kWh, \$44.94)	
	Average On Time:	0.94 hrs (5.3 kWh, \$0.58)		Average On Time:	0.85 hrs (4.8 kWh, \$0.52)	
	Longest On-Time: Shortest On-Time:	2.91 hrs (16.3 kWh, \$1.79) 0.04 hrs (0.2 kWh \$0.02)		Longest On-Time: Shortest On-Time:	2.91 hrs (16.3 kWh, \$1.79) 0.02 hrs (0.1 kWh \$0.01)	
	onorton on mile.	0.01 110 (0.2 1111, 00.02)		ononcost on mile.	0.02 110 (0.1 1141) (0.01)	
	Number of Turn Offis:	102		Number of Turn Offis:	87	
	Percent Off: Data Off Times	43.58 %		Percent Off: Data Off Time:	56.58 %	
	Average Off-Time:	0.72 hrs		Average Off-Time:	1.09 hrs	
	Longest Off-Time:	2.07 hrs		Longest Off-Time:	3.71 hrs	
	Shortest Off-Time:	0.05 hrs		Shortest Off-Time:	0.04 hrs	
		N dia mai	El a utal	- / N ALA \		
		iviiami,	riorid	a (IVIIA)		
	Logger Serial Number: Description:	GT13050028 eTemp		Logger Serial Number: Description:	GT13050028 eTemp	
	Logger Reset:	5/22/2013 2:10:52 PM		Logger Reset:	5/22/2013 2:10:52 PM	
	Elapsed Time Since Reset:	13962.82 hrs		Elapsed Time Since Reset:	14154.82 hrs	
	On-Time Since Reset:	683.70 hrs (3555.2 kWh, \$391.08)		On-Time Since Reset:	683.70 hrs (3555.2 kWh, \$391.08)	
	Percent on ance reset.	4.30 %		Percent On Since Reset.	4.63 %	
	Connected Load:	5.2 kW		Connected Load:	5.2 kW	
	Energy Cost:	\$ 0.11 per kWh		Energy Cost:	\$ 0.11 per kWh	
	Data Starts:	12/18/2014 9:00:00 AM		Data Starts:	12/26/2014 9:00:00 AM	
	Data Ends:	12/25/2014 9:00:00 AM		Data Ends:	1/2/2015 9:00:00 AM	
	Data Elapsed Time:	168.00 hrs		Data Elapsed Time:	168.00 hrs	,
	sumated Annual Hours On	4677 ms (24319.5 KWR, \$2675.14)		Estimated withat Hours On	3737 ms (19431.1 KWm, \$2137.42	
	Number of Turn Ons:	736		Number of Turn Ons:	558	
	Percent On:	53.39 %		Percent On:	42.66 %	
	Average On-Time:	0.12 hrs (0.6 kWh, \$51.30)		Average On-Time:	0.13 hrs (0.7 kWh, \$40.99)	
	Longest On Time:	3.79 hrs (19.7 kWh, \$2.17)		Longest On-Time:	2.86 hrs (14.9 kWh, \$1.64)	
	Shortest On-Time:	0.05 hrs (0.3 kWh, \$0.03)		Shortest On-Time:	0.05 hrs (0.3 kWh, \$0.03)	
	Number of Ture Office	796		Number of Ture Office	559	
	Percent Off:	46.61 %		Percent Off:	57.34 %	
	Data Off-Time:	78.31 hrs		Data Off-Time:	96.34 hrs	
	Average Off-Time:	0.11 hrs		Average Off-Time:	0.17 hrs	
	<ul> <li>Longest Off-Time:</li> <li>Shortest Off-Time:</li> </ul>	0.28 hrs		Longest Off-Time: Shortest Off-Time:	2.63 hrs	
	Shorteat Oliv Tille:	0.02 1113		onoreat On-Time:	0.01 ma	



Dallas, TX (DFW)						
	Logger Serial Number:	CT12010050		Logger Serial Number:	GT12010050	
	Description:	eTemp		Description:	eTemp	
	Logger Reset:	1/1/2001 12:03:16 AM		Logger Reset:	1/1/2001 12:03:16 AM	
E	Lapsed Lime Since Reset:	1225/6.90 hrs 970.00 hrs (9900.4 kWb \$945.94)		Elapsed Time Since Reset:	122/68.90 hrs 979.00 hrs (9990 d MWh 6945 94)	
	Percent On Since Reset:	0.22 %		Percent On Since Reset:	0.22 %	
	Connected Load:	8.2 kW		Connected Load:	8.2 kW	
	Energy Cost:	\$0.11 perkWh		Energy Cost:	\$0.11 perkWh	
	Data Starts:	12/19/2014 9:00:00 AM		Data Starts:	12/27/2014 9:00:00 AM	
	Data Ends:	12/26/2014 9:00:00 AM		Data Ends:	1/3/2015 9:00.00 AM	
	Data Elapsed Time:	168.00 hrs		Data Elapsed Time:	168.00 hrs	
-	stimated Annual Hours On	26/9 hrs (219/1.0 kWh, \$2416.81)		=stimated Annual Hours On	20/4 hrs (1/004.5 kWh, \$18/0.50)	1
	Number of Turn Ons:	339		Number of Turn Ons:	123	
	Percent On:	30.59 %		Percent On:	23.67 %	
	Data On-Time:	51.39 hrs (421.4 kWh, \$46.35)		Data On-Time:	39.77 hrs (326.1 kWh, \$35.87)	
	Average On-Time:	0.15 hrs (1.2 kWh, \$0.14)		Average On-Time:	0.32 hrs (2.7 kWh, \$0.29)	
	Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)		Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)	
					• • • • • • • • • • • • • • • • • • • •	
	Number of Turn Offs:	340		Number of Turn Offs:	124	
	Percent Off: Date Off Time:	69.41 %		Percent Off: Data Off Time:	76.33 %	
	Average Off-Time:	0.34 hrs		Average Off-Time:	1.03 hrs	
	Longest Off-Time:	1.22 hrs		Longest Off-Time:	3.28 hrs	
	Shortest Off-Time:	0.07 hrs		Shortest Off-Time:	0.08 hrs	
	•				•	_
		Houst	ton, TX	(IAH)		
	Logger Serial Number:	GT08080351		Logger Serial Number:	GT08080351	
	Description:	eTemp		Description:	eTemp	
	Elapsed Time Since Reset:	429.28 hrs		Elapsed Time Since Reset:	621.28 hrs	
	On-Time Since Reset:	241.90 hrs (1347.4 kWh, \$148.21)		On-Time Since Reset:	241.90 hrs (1347.4 kWh, \$148.21)	
	Percent On Since Reset:	56.35 %		Percent On Since Reset:	38.94 %	
	Connected Loads	F.C. 1944		Connected Longit	E.C. IMI	
	Energy Cost:	5.5 KW \$ 0.11 nerkWb		Energy Cost:	S.6 KW S.0.11 nerkWh	
	Energy cost.	gotti perkan		2.15.97 0051.	our parking	
	Data Starts:	12/19/2014 9:00:00 AM		Data Starts:	12/27/2014 9:00:00 AM	
	Data Ends:	12/26/2014 9:00:00 AM		Data Ends:	1/3/2015 9:00:00 AM	
	Eata Elapsed Time: Estimated Annual Hours On	3167 hrs (17641.1 kWh \$1940.52)		Data Elapsed Time: Estimated Annual Hours On	2286 brs (12735.0 kWb \$1400.85	
				Estimated Armsai Hours Off		
	Number of Turn Ons:	1239		Number of Turn Ons:	963	
	Percent On:	36.15 %		Percent On:	26.10 %	
	Average On-Time:	0.05 hrs (0.3 kWh \$0.03)		Average On-Time:	43.85 hrs (244.2 kWn, \$26.87)	
	Longest On-Time:	0.50 hrs (2.8 kWh, \$0.31)		Longest On-Time:	0.22 hrs (1.2 kWh, \$0.14)	
	Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)		Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)	
	Number of Turo Offer	1239		Number of Turn Offer	067	
	Percent Off:	63.85 %		Percent Off:	73.90 %	
	Data Off-Time:	107.26 hrs		Data Off-Time:	124.15 hrs	
	Average Off-Time:	0.09 hrs		Average Off-Time:	0.13 hrs	
	<ul> <li>Longest Off-Time:</li> <li>Shortest Off-Time:</li> </ul>	1.29 hrs		Shortest Off-Time:	2.99 hrs	
_	Grid tot Of Third.	COD1 110			(0.01 mo	1 
		Phoenix	, Arizo	na (PHX)		
	Logger Serial Number:	CT10110054		Logger Serial Number:	CT10110054	
	Description:	eTemp		Description:	eTemp	
	Logger Reset:	12/3/2014 4:00:42 PM		Logger Reset:	12/3/2014 4:00:42 PM	
	Co-Time Since Reset:	376.90 hrs. (1959.9 kWb, \$215.59)		Con-Time Since Reset:	764.96 nrs 376.90 hrs (1959.9 kWh \$215.59)	
	Percent On Since Reset:	66.24 %		Percent On Since Reset:	48.01 %	
	Connected Load: Energy Cost:	5.2 KW \$0.11 perkWh		Energy Cost:	5.2 KW \$ 0.11 per kWb	
	2.0.97 0001.			Energy cost.	a construction of the second s	
	Data Starts:	12/20/2014 9:00:00 AM		Data Starts:	12/29/2014 9:00:00 AM	
	Data Ends: Data Elanced Time:	12/27/2014 9:00:00 AM 168.00 hrs		Data Ends: Data Elanced Time:	1/5/2015 9:00:00 AM 168.00 hrs	
	Estimated Annual Hours On	4132 hrs (21485.7 kWh, \$2363.43)		Estimated Annual Hours On	3108 hrs (16159.7 kWh, \$1777.56)	
	******		( )			
	Number of Turn Ons:	273		Number of Turn Ons:	109	
	Data On-Time:	47.17 70 79.24 hrs (412.1 kWh. \$45.33)		Data On-Time:	33.40 76 59.60 hrs (309.9 kWh, \$34.09)	
	Average On-Time:	0.29 hrs (1.5 kWh, \$0.17)		Average On-Time:	0.55 hrs (2.8 kWh, \$0.31)	
	Longest On Time:	6.06 hrs (31.5 kWh, \$3.47)		Longest On-Time:	3.09 hrs (16.0 kWh, \$1.76)	
	Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)		Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)	
	Number of Turn Offis:	273		Number of Turn Offs:	108	
	Percent Off:	52.83 %		Percent Off:	64.52 %	
	Data Off-Time:	88.76 hrs		Data Off-Time:	108.40 hrs	
	Longest Off-Time:	4.00 hrs		Longest Off-Time:	4.21 hrs -	
	Shortest Off-Time:	< 0.01 hrs		Shortest Off-Time:	< 0.01 hrs	
	-				+	





Los Angeles, CA (LAX)					
Logger Serial Numt Descript Logger Rei Elapsed Time Since Rei OrnTime Since Rei Present On Since Rei	er: CT11040023 int: eTemp ef: 9/29/2014 1:12:12 AM ot: 2143.78 hrs ef: 420.20 hrs (2269.1 kWh, \$249.60) ef: 19.60 %	Logger Serial Number:         CT11040023           Description:         eTemp           Logger Reset:         9/29/2014           1:12:12 AM           Elapsed Time Since Reset:         235.78           On-Time Since Reset:         420.20           Percent On Since Reset:         12.98           Percent On Since Reset:         12.99			
Connected Lo Energy C	d: 5.4 kW st: \$0.11 perkWh	Connected Load: 5.4 kW Energy Cost: \$0.11 per kWh			
Dala Sia Data Eri Data Elapsed Tir Estimated Annual Hours	is: 12/20/2014 9:00:00 AM is: 12/27/2014 9:00:00 AM ie: 168:00 hrs Dn 2533 hrs (13678:0 kWh, \$1604.58)	Data Starts:         12/28/2014         9:00:00 AM           Data Ends:         1/4/2015         9:00:00 AM           Data Ends:         188:00 hrs         188:00 hrs           it         Estimated Annual Hours On         2060 hrs (11121.9 kWh, \$1223.41)			
Number of Turn O Percent ( Data On-Tir Average On-Tir Longest On-Tir Shortest On-Tir	s: 412 m: 28.92 % et 48.58 hrs (262.3 kWh, \$28.85) et 0.12 hrs (0.6 kWh, \$0.07) et: 1.60 hrs (8.7 kWh, \$0.95) et: <0.01 hrs (0.0 kWh, \$0.00)	Number of Turn Ons:         564           Percent On:         23,51           Data On-Time:         39.50           Average On-Time:         0.07           Longest On-Time:         3.27           Shortest On-Time:         3.27           https://www.studiest On-Time:         3.27           Shortest On-Time:         < 0.01           https://www.studiest On-Time:         < 0.01			
Number of Turn O Percent Data Off-Ti Average Off-Ti Longest Off-Ti Shortest Off-Ti	15: 413 16: 71.08 % 119.42 hrs 19: 0.29 hrs 19: 4.86 hrs 19: < 0.01 hrs	Number of Turn Offis:         565           Perconi Offi:         76.49         %           Data Off-Time:         128.50         hre           Average Off-Time:         0.23         hrs           Longest Off-Time:         3.94         hrs           Shortest Off-Time:         < 0.01         hrs			
	San Frar	ncisco, CA (SFO)			
Logger Serial Num Descrip Logger Re Elapsed Time Since Re On-Time Since Re Percent On Since Re	zer: CT10110066 on: eTemp set: 1///2001 12:00:00 AM set: 122640.00 hrs set: 427.70 hrs (1796.3 kWh, \$197.60) set: 0.35 %	Logger Serial Number:         CT10110066           Description:         eTemp           Logger Reset:         1/1/2001           Elapsed Time Since Reset:         122841.00           On-Time Since Reset:         427.70           Percent On Since Reset:         0.35 %			
Connected Le Energy C	ad: 4.2 kW sst: \$ 0.11 perkWh	Connected Load: 4.2 kW Energy Cost: \$0.11 per kWh			
Data Sta Data E Data Elapsed Ti Estimated Annual Houra	rts: 12/22/2014 9:00:00 AM ds: 12/29/2014 9:00:00 AM ne: 168.00 hrs On 6226 hrs (26151.2 kWh, \$2876.63)	Data Starts:         12/30/2014         9:00:00 AM           Data Ends:         1/6/2015         9:00:00 AM           Data Elapsed Time:         168:00 hrs           Estimated Annual Hours On         4791 hrs (20123.4 kWh, \$2213.57)			
Number of Turn C Percent Data Ch-T Average Ch-T Longes Ch-T Shortest On-T	ns: 606 Dn: 71.08 % me: 11941 hrs (501.5 kWh, \$55.17) me: 0.20 hrs (0.8 kWh, \$0.09) me: 5.44 hrs (22.8 kWh, \$2.51) me: < 0.01 hrs (0.0 kWh, \$0.00)	Number of Turn Ons:         435           Percent On:         54.69         %           Data On-Time:         91.88         hrs (385.9 kWh, \$42.45)           Average On-Time:         0.21         hrs (0.9 kWh, \$40.10)           Longest On-Time:         5.44         hrs (22.9 kWh, \$2.51)           Shortest On-Time:         < 0.01         hrs (0.0 kWh, \$0.00)			
Number of Turn C Parcent Data Off-T Average Off-T Longest Off-T Shortest Off-T	ffs: 605 Dff: 28.92 % ne: 48.59 hrs ne: 0.08 hrs ne: 0.39 hrs ne: <0.01 hrs	Number of Turn Offis:         434           Percent Off:         45.31           Data Off-Time:         76.11           Average Off-Time:         0.18           Longest Off-Time:         2.13           Shortest Off-Time:         <0.01			
	Minnear	polis, MN (MSP)			
Logger Serial Num Descrip Logger Re Elapsed Time Since Re On-Time Since Re Percent On Since Re	ver: CT11120085 on: eTemp tet: 3/12/2001 7:05:32 AM tott: 120085.90 hre set: 914.80 hrs (7667.3 kWh, \$865.40) set: 0.76 %	Logger Serial Number: CT11120085 Description: eTemp Logger Reset: 3/12/2001 7:05:32 AM Elapsed Time Since Reset: 121177.90 hre On-Time Since Reset: 914.60 hrs (7867.3 kWh, \$865.40) Percent On Since Reset: 0.75 %			
Connected Lo Energy C	ad: 8.6 kW ost: \$0.11 perkWh	Connected Load: 8.6 kW Energy Cost: \$0.11 per kWh			
Data St Data El Data Elapsed T Estimated Annual Hours	rts: 12/23/2014 9:00:00 AM ds: 12/30/2014 9:00:00 AM ne: 168.00 hrs On 2069 hrs (17795.4 kWh, \$1957.49	Data Starts:         12/31/2014         9:00:00 AM           Data Ends:         1/7/2015         9:00:00 AM           Data Elapsed Time:         168:00 hrs           Estimated Annual Hours On         1657 hrs (14248.4 kWh, \$1567.33)			
Number of Turn C Percent Data On-Ti Average On-Ti Longest On Ti Shortest On-Ti	ns: 552 Dr: 23.62 % ne: 39.68 hrs (341.3 kWh, \$37.54) ne: 0.67 hrs (0.6 kWh, \$0.07) ne: 0.82 hrs (7.1 kWh, \$0.78) ne: <0.81 hrs (0.0 kWh, \$0.00)	Number of Turn Ons:         301           Percent Cr:         18.91 %           Data On-Time:         31.77 hrs (273.3 kWh, \$30.05)           Average On-Time:         0.11 hrs (0.9 kWh, \$0.10)           Longest On-Time:         2.70 hrs (24.0 kWh, \$2.64)           Shortest On-Time:         < 0.01 hrs (0.0 kWh, \$0.00)			
Number of Turn C Percent Data Off-T Average Off T Longest Off-T Shortest Off-T	tts: 553 Ctf: 78.38 % me: 128.32 hrs me: 0.23 hrs me: 2.61 hrs me: < 0.01 hrs	Number of Turn Offs:         302           Percent Off:         81.09 %           Data Off-Time:         136.23 hrs           Average Off-Time:         0.45 hrs           Longest Off-Time:         3.21 hrs           Shortest Off-Time:         < 0.01 hrs			



Detroit, MI (DTW)					
	Logger Serial Number:	CT12080047	Logger Serial Number:	GT12080047	
	Description:	eTemp	Description:	eTemp	
	Logger Reset:	12/17/2014 4:19:23 PM	Logger Reset:	12/17/2014 4:19:23 PM	
	Elapsed Time Since Reset:	280.67 hrs	Elapsed Time Since Reset:	451.67 hrs	
	On-Time Since Beset:	76.90, hrs. (553.7 kWh, \$60.90)	On-Time Since Beset:	76.90 hrs (553.7 kWh \$60.90)	
	Percent On Since Beset:	27.40.%	Percent On Since Basel:	17.03 %	
	reisent on once neads.	21.40 10	Forcent on Since hissol.	17.03 /6	
	Connected Load:	79 kW	Connected Lond:	7.2 KW	
	Energy Cost:	CO11 por W/h	Energy Cast	¢0.11. norkWh	
	Energy Cost:	ş ü. Ti perkwri	Energy Cost:	\$ 0.11 perkvan	
		10/00/00/11 0 00 00 111	D	10000011 10000000	
	Data Starts:	12/23/2014 9:00:00 AM	Data Starts:	12/30/2014 12:00:00 PM	
	Data Ends:	12/29/2014 9:00:00 AM	Data Erids:	1/5/2015 12:00:00 PM	
	Data Elapsed Time:	144.00 hrs	Data Elapsed Time:	144.00 hrs	
	Estimated Annual Hours On	2534 hrs (18245.3 kWh, \$2006.98)	Estimated Annual Hours On	1815 hrs (13067.5 kWh, \$1437.42	
	Number of Turn Ons:	355	Number of Turn Ons:	187	
	Percent On:	28.93 %	Percent On:	20.72 %	
	Data On-Time:	41.66 hrs (299.9 kWh, \$32.99)	Data On-Time:	29.83 hrs (214.8 kWh, \$23.63)	
	Average On-Time:	0.12 hrs (0.8 kWh, \$0.09)	Average On-Time:	0.16 hrs (1.1 kWh, \$0.13)	
	Longest On-Time:	7.37 hrs (53.1 kWh, \$5.84)	Longest On-Time:	8.03 hrs (57.8 kWh, \$6.36)	
	Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)	Shortest On-Time:	< 0.01 hrs (0.0 kWh, \$0.00)	
	Number of Turn Offs:	356	Number of Turn Offis:	188	
	Percent Off:	71.07 %	Percent Off:	79.28 %	
	Date Off-Time:	102.34 hm	Data Off-Time:	114.17 hrs	
	Average Off-Time:	0.29 brs	Average Off-Time:	0.61 hrs	
	Longert Off-Time:	6.01 hrs	Loopart Off Time:	7.69 hrs	
	<ul> <li>Eurgest Off-Time:</li> <li>Shortest Off Time:</li> </ul>	0.01 hm	Ebrigest Off-Time:	7.55 his	
	Shonest On+Time.	< 0.01 ms	Shortest On-Time.	< 0.01 ms	
		New York	City, NY (JFK)		
	Logger Serial Number:	New York	City, NY (JFK)	CT10040078	
	Logger Serial Number: Description:	CT10040078 eTemp	City, NY (JFK) Logger Serial Number: Description:	GT10040078 eTemp	
	Logger Serial Number: Description: Logger Reset:	CT10040078 eTemp 12/14/2014 4:00:42 PM	City, NY (JFK) Logger Serial Number: Description: Logger Reset:	GT10040078 eTemp 12/14/2014 4:00:42 PM	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset:	CT10040078 eTemp 12/14/2014 4:00:42 PM 544.98 hrs	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset:	GT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset:	CT10040076 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376.90 hrs (2099.3 kWh, \$230.93)	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset:	CT10040076 eTemp 12/14/2014 4:00:42 PM 736.90 hrs (2093.3 kWh, \$230.93)	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT10040076 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 69.10 %	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2093.3 kWh, \$200.93) 51.14 %	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT10040078 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 69.15 %	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset:	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 %	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load:	CT10040076 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 69.16 %	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load:	CT10040076 eTemp 12/14/2014 4:00:42 PM 736.90 hrs (2093.3 kWh, \$230.93) 51.14 % 5.6 kW	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT10040078 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 69.16 % 5.6 kW \$ 0.11 per kWh	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % 5.6 kW \$ 0.11 per kWh	
	Logger Serial Number: Description: Logger Reset: Elapaed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT10040078 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376:90 hrs (2099.3 kWh, \$230.93) 69:16 % 5.6 kW \$ 0.11 perkWh	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost:	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % 5.6 kW \$ 0.11 perkWh	
	Logger Strial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts:	New York	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Deta Starts:	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2090.3 kWh, \$230.93) 51.14 % 5.6 kW \$ 0.11 perkWh 1/7/2015 9:00.00 AM	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Ends:	CT10040078 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 69.16 % 5.6 kW \$ 0.11 per kWh 12/30/2014 9:00:00 AM 12/6/2015 9:00:00 AM	City, NY (JFK) Logger Serial Number: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Starts:	CT10040078 eTemp 12/14/2014 4:00:42 PM 786.90 hrs (2099.3 kWh, \$200.93) 51.14 % 5.6 kW \$ 0.11 per kWh 1/7/2015 9:00:00 AM 1/14/2015 9:00:00 AM	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Elapsed Time:	State         New York           CT10040078         eTemp           12/14/2014         4:00:42 PM           544.98         hrs           376.90         hrs (2099.3 kWh, \$230.93)           69.16 %         5.5           5.5         kW           \$0.11         per kWh           12/30/2014         9:00:00 AM           1/6/2015         9:00:00 AM           158.00         hrs	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Ends: Data Ends:	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % 5.6 kW \$ 0.11 per kWh 1/7/2015 9:00.00 AM 1/14/2015 9:00:00 AM 1/14/2015 9:00:00 AM	
	Logger Serial Number: Description: Logger Feset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Elapsed Time: Estimated Annual Hours On	State         New York           eTemp         12/14/2014         4:00:42 PM           544.98         hrs         376.90           376.90         hrs (2099.3 kWh, \$230.93)           69.16 %         5.6           5.6         kW           \$0.11         per KWh           12/30/2014         9:00:00 AM           168.00         hrs           9843         hrs (20291.4 kWh, \$2232.05)	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Elapsed Time: Estimated Annual Hours On	CT10040078 eTemp 12/14/2014 4:00:32 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % 5.6 kW \$ 0.11 perkWh 1/7/2015 9:00:00 AM 1/14/2015 9:00:00 AM 188.00 hrs 2657 hrs (14798.5 kWh, \$1627.84)	
	Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: Percent On Since Reset: Connected Load: Energy Cest: Data Etastars: Data Ends: Data Ends: Data Ends: Data Ends:	New York	City, NY (JFK) Logger Serial Number: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Cannected Load: Energy Cost: Data Starts: Data Elapsed Time: Estimated Annual Hours On	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % 5.6 kW \$ 0.11 per kWh 1/7/2015 9:00:00 AM 1/14/2015 9:00:00 AM 1/14/2015 9:00:00 AM 168.00 hrs 2657 hrs (14798.5 kWh, \$1627.84)	
	Logger Strial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cest: Data Ends: Data Ends: Data Ends: Data Ends: Estimated Annual Hours On	New York	City, NY (JFK) Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On	CT10040078 eTemp 12/14/2014 4:00:42 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % \$ 5.5 kW \$ 0.11 perkWh 1/7/2015 9:00:00 AM 1/14/2015 9:00:00 AM 188.00 hrs 2657 hrs (14798.5 kWh, \$1627.84) 132	
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	Logger Strial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Average On-Time: Average On-Time: Shortest On-Time: Number of Tum Offs: Parcent Off: Data Cff-Time: Average Off-Time:	CT10040078 eTemp 12/14/2014 4:00:42 PM 544.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 69.18 % 5.6 kW \$ 0.11 per kWh 12/30/2014 9:00:00 AM 168.00 hrs 3643 hrs (20291.4 kWh, \$2232.05) 267 41.59 % 59.87 hrs (389.1 kWh, \$42.81) 0.26 hrs (1.5 kWh, \$42.81) 0.26 hrs (26.5 kWh, \$42.91) 4.76 hrs (26.5 kWh, \$42.91) 4.76 hrs (26.5 kWh, \$42.91) 4.76 hrs (0.0 kWh, \$0.00) 268 58.41 % 98.13 hrs 0.37 hrs 0.99 hrs	City, NY (JFK) Logger Serial Number: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Ceet: Data Starts: Data Starts: Data Elapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Average On-Time: Number of Tum Offs: Percent Off: Data Cff-Time: Average Cff-Time: Aver	CT10040078 eTemp 12/14/2014 4:00:42 PM 786.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % \$ 0.11 per kWh 1/7/2015 9:00:00 AM 1/14/2015 9:00:00 AM 1/12/2015 9:00:00 AM 2.62 hrs (14.6 kWh, \$1627.84) 2.62 hrs (14.6 kWh, \$31.22) 0.39 hrs (0.0 kWh, \$0.00) 131 69.67 % 117.05 hrs 0.89 hrs 5.5 b hrs	
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	Logger Strial Number: Description: Logger Freset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Data Etapsed Time: Estimated Annual Hours On Number of Tum Ons: Percent On: Data On-Time: Longeat On-Time: Shortest On-Time: Number of Tum Offs: Parcert Off: Data Cfi-Time: Average Cfi-Time: Average Cfi-Time: Shortest Off-Time:	State         State           CT10040078         eTemp           12/14/2014         4:00:42 PM           544.98         hrs           376.90         hrs           69.16 %         5.6           5.6         kW           \$ 0.11         per KWh           12/30/2014         9:00:00 AM           1/6/2015         9:00:00 AM           1/6/2015         9:00:00 AM           188.00         hrs           3643         hrs           3643         hrs           267         41.59 %           41.59 %         59.87 hrs           0.26 hrs         (265 kWh, \$2232.05)           267         4.1.59 %           69.87 hrs         (26.5 kWh, \$2.91)           0.26 hrs         (26.5 kWh, \$2.91)           < 0.01 hrs	City, NY (JFK) Logger Serial Number: Logger Reset: Logger Pesset: Elapsed Time Since Reset: On-Time Since Reset: Percent On Since Reset: Connected Load: Energy Cost: Data Starts: Data Starts: Stortest Off-Time: Stortest Off-Time	CT10040078 eTemp 12/14/2014 4:00:32 PM 736.98 hrs 376.90 hrs (2099.3 kWh, \$230.93) 51.14 % 5.6 kW \$ 0.11 per kWh 1/7/2015 9:00:00 AM 1/14/2015 9:00:00 AM 1/14/2005 9:00 AM 1/14/2005 9:00	

## Chain Restaurant in Denver, CO

Walk-In Cooler				
Logger Serial Number: Description: Logger Reset: Elapsed Time Since Reset: On-Time Since Reset: Bercend On Since Reset:	GT11120004 eTemp 10/2/2010 2:13:19 PM 29897.77 hrs 376.90 hrs (2186.0 kWh, \$240.46) 1.28 %	Logger Serial Number: CT11120004 Description: eTemp Logger Reset: 10.3/2010 2:13:19 PM Elapsed Time Since Reset: 30425.77 hrs On-Time Since Reset: 376.90 hrs (2186.0 kWh, \$240.46) Percent On: Since Reset: 124.1%		
Connected Load: Energy Cost: Data Starts: Data Etapsed Times Lings of Time:	5.8 kW \$ 0.11 per kWh 2/10/2014 8:00:00 AM 3/2/2014 8:00:00 AM 480.00 brs	Connected Load: 5.8 kW Energy Cost: \$ 0.11 per kWh Data Starts: 3/4/2014 6:00.00 AM Data Elapsed Time: 3/24/2014 8:00:00 AM		
Shortest On-Time:	4328 hrs (25103.3 kWh, \$2761.37) 689 49.41 % 237.16 hrs (1375.5 kWh, \$151.31) 0.34 hrs (2.0 kWh, \$0.22) 4.42 hrs (2.5 kWh, \$2.82) < 0.01 hrs (0.0 kWh, \$0.00)	Estimated Annual Hours On         S177 nrs         (Hadas 3 kWh, S2026.89)           Number of Tum Ons:         360         Percent On:         36.27 %           Data On-Time:         174.08 hrs         (1009.7 kWh, \$111.06)           Average On-Time:         0.48 hrs         (2.8 kWh, \$0.31)           Longed On-Time:         3.09 hrs         (17.9 kWh, \$1.17)           Shortest On-Time:         < 0.01 hrs         (0.0 kWh, \$0.00)		
Number of Tum Offs: Percent Off: Data CH-Time: Average CH-Time: Longest CH-Time: Shortest Off-Time:	690 50.59 % 242.84 hrs 0.35 hrs 4.00 hrs < 0.01 hrs	Number of Tum Otts:         360           Parcent Off:         63.73           Data Off-Time:         305.92           Average Off-Time:         0.85           Longest Off-Time:         5.18           Shortest Off-Time:         < 0.01		















Insurance Letter (next page)