

Energy & Utilities Policy Committee

Thursday, April 1, 2010 Morris Hall 8:45 AM – 9:45 AM

ACTION PACKET

Energy & Utilities Policy Committee

4/1/2010 8:45:00AM

Location: Morris Hall (17 HOB)

Summary:

Energy & Utilities Policy Committee

Thursday April 01, 2010 08:45 am

PCB EUP 10-05 Favorable

Yeas: 12 Nays: 0

Print Date: 4/1/2010 11:32 am Page 1 of 4

Energy & Utilities Policy Committee

4/1/2010 8:45:00AM

Location: Morris Hall (17 HOB)

Print Date: 4/1/2010 11:32 am

Attendance:

	Present	Absent	Excused
Stephen Precourt (Chair)	X		
Esteban Bovo, Jr.	×		
Jennifer Carroll	×		
Clay Ford	x		
Joseph Gibbons	X		
Mike Horner	X		
Matt Hudson	X		
Seth McKeel	X		
Dave Murzin	×		
Maria Sachs	X		
Robert Schenck	X		
Darren Soto	x		
Charles Van Zant	X		
Alan Williams	X		
Totals:	14	0	0

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Energy & Utilities Policy Committee

4/1/2010 8:45:00AM

Location: Morris Hall (17 HOB)

PCB EUP 10-05: Public Records Exceptions - Office of Regulatory Staff

	Yea	Nay	No Vote	Absentee Yea	Absentee Nay
Esteban Bovo, Jr.	X		· · · · · · · · · · · · · · · · · · ·		
Jennifer Carroll	X				
Clay Ford	X				
Joseph Gibbons	X				
Mike Horner	X				······································
Matt Hudson	X				
Seth McKeel	X				
Dave Murzin				X	
Maria Sachs	X				
Robert Schenck	X				
Darren Soto	X				
Charles Van Zant			X		
Alan Williams	X				
Stephen Precourt (Chair)	X				'''

Energy & Utilities Policy Committee

4/1/2010 8:45:00AM

Location: Morris Hall (17 HOB)

Other Business Appearance:

Discussion of the Florida Energy Efficiency and Conservation Act (FEECA)
Susan Glickman (Lobbyist) - Information Only
Southern Alliance for Clean Energy

P.O. Box 310

Indian Rocks Beach Florida 33785

Phone: 727-595-7314

Discussion of the Florida Energy Efficiency and Conservation Act (FEECA) Mark Futrell (State Employee) (At Request Of Chair) - Information Only FL Public Service Commission 2540 Shumard Oak Blvd

Tallahassee Florida 32399 Phone: 850-413-6692

Discussion of the Florida Energy Efficiency and Conservation Act (FEECA)

John Masiello - Information Only Progress Energy Florida

3300 Exchange Place Lake Mary Florida 32746

Phone: 407-942-9304

Discussion of the Florida Energy Efficiency and Conservation Act (FEECA)

Barbara A. DeVane (Lobbyist) - Information Only

Florida NAACP

625 East Brevard Street Tallahassee Florida 32308

Phone: 850-222-3969

Discussion of the Florida Energy Efficiency and Conservation Act (FEECA)

Christopher Maingot - Information Only Florida Solar Energy Industries Association 275 Hunt Park Cove Longwood Florida 32750

Phone: 407-331-9077

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Cost Tests by State



PCT	UCT/PAC	RIM	TRC	SCT	Unspecified
	CT, DC, TX	FL	CA, CO, DE, IL, MA, MO, NH, NJ, NM, RI, UT	AZ, ME, MN, VT, WI	AR, CO, DE, GA, HI, IA, ID IN, KS, KY, MD, MT, NC, ND,, NV, OK, OR, PA, SC, VA, WA, WY

Secondary Cost Test Used by Different States					
РСТ	UCT/PAC	RIM	TRC	SCT	
AR, FL, GA, HI, IA, IN, MN, VA	AT, CA, CT, HI, IA, IN, MN, MO, NV, NY, OR, UT, VA, TX	AR, DC, FL, GA, HI, IA, IN, KS, MN, NH, VA	AR, CA, CT, FL, GA, HI, IL, IN, KS, MA, ME, MN, MO, MT, NH, NM, NY, UT, VA	AZ, CO, GA, HI, IA, IN, MW, MN, MT, NV, OR, VA, VT, WI	

Summary of Costs and Benefits



- High level summary of costs and benefits included in each cost test
- Each state adjusts these definitions depending on circumstances
- Details can significantly affect the type of energy efficiency implemented

Component	PCT	PAC	RIM	TRC	SCT
Energy and capacity related avoided costs.	-	Benefit	Benefit	Benefit	Benefit
Additional resource savings	-	-	-	Benefit	Benefit
Non-monetized benefits	-	-		,	Benefit
Incremental equipment and install costs	Cost	-	-	Cost	Cost
Program overhead costs	-	Cost	Cost	Cost	Cost
Incentive payments	Benefit	Cost	Cost	-	-
Bill Savings	Benefit		Cost	-	_



Total Resource Cost (TRC) Test and Avoided Costs

Public Utilities Commission of Ohio Workshop

Wednesday, August 5, 2009 8:30am – 12:30pm

Presentations by Snuller Price and Richard Sedano
Representing
Electricity Markets and Policy Group
Environmental Energy Technologies Division
Lawrence Berkeley National Laboratory (LBNL)



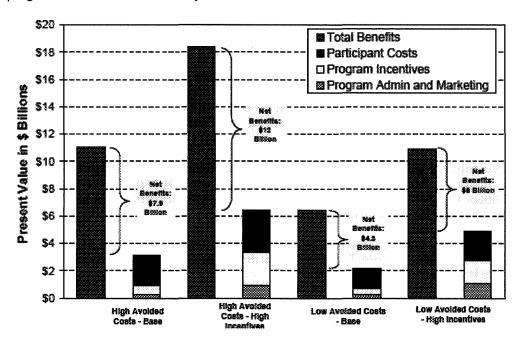
Texas' Energy Efficiency Resource Standard: A History of Progress

Overview

Since 2007, Texas has required electric utilities to meet an energy efficiency goal equal to 20% of load growth, currently about 0.34% of prior year sales. Originally enacted in 1999 and revised to its current form in 2009, the Public Utilities Commission of Texas (PUCT) has the responsibility to establish and oversee these energy savings targets. As required by the legislation, the PUCT commissioned a report to estimate energy efficiency potential in Texas to respond to the Texas Legislature's questions regarding energy efficiency goals and policies. The study, completed by Itron, Inc., found that higher energy efficiency goals, reducing load growth by 30% by 2010 and 50% by 2015, are feasible. This information may inform other states looking to either put an energy efficiency goal in play as Florida is currently doing or strengthen one such as Texas is considering.

The "worst-case" rate impacts in Texas, as estimated by Itron, Inc., are about 0.04 ¢/kWh. Even after paying this slight rate increase, customers on average would have **lower bills**. Lower bills are forecast because the benefits of the programs were forecast to be about three times the costs (including uncollected revenues to pay for utility infrastructure).

The pro-consumer findings of Itron's study for the PUCT are illustrated below; the estimated program costs are contrasted with the energy and peak savings projected from the programs under four different scenarios. In all but one case, the benefit-cost ratio is greater than 3.0. The net benefits to the citizens of Texas range from \$4.2 billion to \$11.9 billion as a result of capturing the savings from expanded energy efficiency programs over the next several years.



¹ Itron, Inc., 2008, Assessment of the Feasible and Achievable Levels of Electricity Savings from Investor Owned Utilities in Texas: 2009-2018.

Study Background: Achievable Potential and the Feasibility of Attaining the Savings Goals

Itron provided a total of four scenarios to evaluate achievable energy efficiency potential and the feasibility of attaining the higher savings goals. A High² and Base³ (low) forecast of achievable savings was based on estimated customer adoption rates under a range of incentive and marketing levels, and under two utility avoided cost and retail rate scenarios (thus, four scenarios).

Different assumptions about avoided costs and program incentive level were used to produce the four scenarios of achievable savings. In all cases, the measures included in the forecasts of achievable savings were restricted to those measures that pass the total resource cost test.⁴ The four scenarios are described below

Scenario Name	Avoided Cost Forecast	Incentive Level as a Fraction of Incremental Measure Cost
Base Case – Low Avoided Cost	Avoided cost increases at rate of inflation (2% per year)	33%
Base Case – High Avoided Cost	Avoided cost increases at 5% per year (last 5 year trend)	55%
High Case – Low Avoided Cost	Avoided cost increases at rate of inflation (2% per year)	67%
High Case – High Avoided Cost	Avoided cost increases at 5% per year (last 5 year trend)	67%

Rate and Bill Impacts of the Proposed Energy Savings Levels

It is generally true that setting higher energy savings goals requires increased energy efficiency program funding, which will lead to short-term rate impacts. For Texas, Itron found that such rate impacts would be modest but would also produce highly positive net benefits to utility customers. Itron's analysis shows that slightly higher rates will be more than doubly offset by lower energy bills for the average customer in the longer run.

Itron estimated potential average rate impacts associated with its Base and High incentive cases ranges from 0.01 cents/kWh to 0.04 cents per kWh.⁵ Translating these rate impacts, the table on the next page shows the impact of potential revenue impacts⁶ (from the utility perspective) and bill savings (from the customer's perspective) for a typical residential household.

² The High forecast incorporated increased marketing efforts and incentive levels, increasing the Base incentive level to roughly 67% of the incremental costs. The High forecast resulted in significant increases in the estimated number of customers willing to purchase more efficient products.

³ The Base forecast assumes incentive levels similar to recent incentive levels (roughly 33% of incremental measure costs) but utilities are allowed to expand their program offerings and market them more directly to customers after 2009.

⁴ The present value of the net benefits of the energy and peak savings from the programs must exceed the value of the sum of the program cost and the incremental costs to program participants of purchasing and installing the efficiency measures.

⁵ The estimated rate impact depends on the avoided cost forecast (because these values affect the present value of savings achieved by programs) and the assumed level of program funding (the Base or the High incentive cases).

⁶ Potential revenue impacts are calculated as the lost revenues (at full retail price) minus avoided cost benefits plus program costs divided by total residential sales times a typical residential usage of 833 kWh/month (10,000 kWh/year). Itron's model calculated the lost revenue associated with each achievable funding scenario.

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Scenario Definition	Average Annual P Impa		Average Annual Bill Savings	
Dennition	Cents per kWh \$/Household- Month**		\$/Household-Month**	
Base Incentive – Low Retail Rate	0.01 ¢	\$ 0.09	\$ 0.18	
Base Incentive – High Retail Rate	0.014 ¢	\$ 0.12	\$ 0.25	
High Incentive – Low Retail Rate	0.033 ¢	\$ 0.27	\$ 0.48	
High Incentive – High Retail Rate	0.04 ¢	\$ 0.36	\$ 0.62	

^{*}Revenue reduction from reduced sales (at retail rate of \$0.12/kWh reduced) minus avoided cost benefits (at

Costs and Benefits of Expanding Energy Efficiency Programs

A recent study by the Consumer Federation of America detailed several key characteristics of states that invest in high levels of energy efficiency (the best states) and those that do not (the worst states). Overall, states that invest in energy efficiency have slower rates of load growth and electricity rates have been trending up at a higher rate than states with no energy efficiency programs. Even though energy efficiency helps reduce load growth and does contribute to electricity rate increases, other factors explain the majority of the difference in the trend between the two groups.

The Consumer Federation of America study also found that households in every state would be better off if aggressive programs captured the full benefit of energy efficiency. Investments that reduce energy use by 30% by 2030 would lead to direct benefits in every state: from a low of just over \$300 per year in Idaho to a high of more than \$600 per year in Connecticut. The reductions in bills would be largest where the current bills are highest.

In Florida, if electricity consumption were reduced by 20% by 2030, consumers could realize an annual net savings of about \$219 per household over that timeframe. If electricity consumption were reduced by 30% over that same timeframe, net savings would increase to \$328 per household.⁹

^{~\$0.08} per kWh saved) plus program costs.

^{**}For a typical household with annual consumption of 10,000 kWh/year.

Typical equivalent monthly bill would be roughly \$100/month at \$0.12/kWh.

⁷ Mark Cooper, 2010, Building on the Success of Energy Efficiency Programs to Ensure an Affordable Energy Future: State-by-State Savings on Residential Utility Bills from Aggressive Energy Efficiency Policies.

Energy usage per customer grew by a cumulative total of 16.7% in the worst states over the seventeen-year period evaluated. Consumption growth includes the increase in the number of customers. In contrast, over that same time frame usage in the best states grew by a cumulative total of just 2.6%. In the states with the higher consumption growth rate (the worst states), prices increased by 19% while prices increased by 58% in the states with the slowest growth (the best states). Per capita spending on energy efficiency programs was quite low in the worst states, \$6.7 per capita, in contrast to \$89.2 in the best states. Not surprisingly, energy savings resulting from efficiency programs was near zero in the worst states (.06%), but quite substantial in the best states (3.6%).

See Footnote 7.

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Residential	MF 800 802 High Efficiency One Speed Pool Pump (1.
_SF 100 109 HVAC Proper Sizing	hp)
_SF 100 112 AC Maintenance (Outdoor Coll Cleaning)	MF 900 901 Energy Star TV
_SF 100 114 Proper Refrigerant Charging and Air Flow	MF 910 911 Energy Star TV
_SF 100 115 Electronically Commutated Motors (ECM) on	MF 920 921 Energy Star Set-Top Box
an Air Handler Unit	MF 930 931 Energy Star DVD Player
_SF 130 135 HVAC Proper Sizing	MF 940 941 Energy Star VCR
_SF 130 138 AC Maintenance (Outdoor Coil Cleaning)	MF 950 951 Energy Star Desktop PC
_SF 130 140 Proper Refrigerant Charging and Air Flow	MF 960 961 Energy Star Laptop PC
_SF 130 141 Electronically Commutated Motors (ECM) on	MH 100 109 HVAC Proper Sizing
an Air Handler Unit	MH 100 112 AC Maintenance (Outdoor Coil Cleaning)
_SF 220 221 CFL (18-Watt integral ballast), 0.5 hr/day	MH 130 135 HVAC Proper Sizing
_SF 230 231 CFL (18-Watt integral ballast), 2.5 hr/day	MH 130 141 Electronically Commutated Motors (ECM) of
_SF 240 241 CFL (18-Watt integral ballast), 6.0 hr/day	an Air Handler Unit
_SF 250 252 RET 2L4'T8, 1EB	MH 220 221 CFL (18-Watt integral ballast), 0.5 hr/day
_SF 260 252 RET 2L4'T8, 1EB	MH 230 231 CFL (18-Watt integral ballast), 2.5 hr/day
_SF 400 405 Low Flow Showerhead	MH 240 241 CFL (18-Watt integral ballast), 6.0 hr/day
_SF 400 407 Faucet Aerators	MH 250 252 RET 2L4'T8, 1EB
_SF 400 408 Water Heater Blanket	MH 260 252 RET 2L4'T8, 1EB
SF 400 409 Water Heater Temperature Check and	MH 400 405 Low Flow Showerhead
Adjustment	MH 400 407 Faucet Aerators
_SF 400 411 Heat Trap	MH 400 408 Water Heater Blanket
_SF 800 801 Two Speed Pool Pump (1.5 hp)	MH 400 411 Heat Trap
_SF 800 802 High Efficiency One Speed Pool Pump (1.5	MH 800 801 Two Speed Pool Pump (1.5 hp)
hp)	MH 800 802 High Efficiency One Speed Pool Pump (1.
_SF 900_901_Energy Star TV	hp)
_SF 910 911 Energy Star TV	MH 900 901 Energy Star TV
_SF 920 921 Energy Star Set-Top Box	MH 910 911 Energy Star TV
_SF 930 931 Energy Star DVD Player	MH 920 921 Energy Star Set-Top Box
_SF 940 941 Energy Star VCR	MH 930 931 Energy Star DVD Player
_SF 950 951 Energy Star Desktop PC	형 사람은 살리 그는 일반들이 살아 내려왔다. 그림은 아이들은 이 경기에 가는 아이를 하지 않는 수 있다. 그리는 아이들은 이 아이들이 되었다는 것이다.
_SF 960 961 Energy Star Laptop PC	MH 940 941 Energy Star VCR MH 950 951 Energy Star Desktop PC
강화통합 이번 보고 있는 사람이 있는 사람들은 사람들은 사람들이 있다면 하시네요. 그리고 있었다. 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	[2012] 한 15kg - 15kg - 1 - 15kg -
MF 100 109 HVAC Proper Sizing	MH 960 961 Energy Star Laptop PC
MF 100 120 Window Tinting	
MF 100 121 Default Window With Sunscreen	Commercial
MF 130 135 HVAC Proper Sizing	10-110-111 Premium T8, Electronic Ballast
MF 130 141 Electronically Commutated Motors (ECM) on	10-110-112 Premium T8, EB, Reflector
an Air Handler Unit	10-110-115 Lighting Control Tuneup
MF 130 146 Window Tinting	10-120-121 ROB Premium T8, 1EB
MF 130 147 Default Window With Sunscreen	10-120-122 ROB Premium T8, EB, Reflector
MF 220 221 CFL (18-Watt integral ballast), 0.5 hr/day	10-130-131 CFL Screw-in 18W
MF 230 231 CFL (18-Watt integral ballast), 2.5 hr/day	10-140-141 CFL Hardwired, Modular 18W
MF 240 241 CFL (18-Watt integral ballast), 6.0 hr/day	10-150-151 PSMH, 250W, magnetic ballast
MF 250 252 RET 2L4'T8, 1EB	10-150-153 High Bay T5
MF 260 252 RET 2L4'T8, 1EB	10-160-161 LED Exit Sign
MF 400 405 Low Flow Showerhead	10-300-301 Centrifugal Chiller, 0.51 kW/ton, 500 tons
MF 400 407 Faucet Aerators	10-300-302 High Efficiency Chiller Motors
MF 400 408 Water Heater Blanket	10-300-304 EMS - Chiller
MF 400 411 Heat Trap	10-300-306 VSD for Chiller Pumps and Towers
MF 800 801 Two Speed Pool Pump (1.5 hp)	10-300-307 EMS Optimization
	10-300-308 Aerosole Duct Sealing

Progress Energy Florida
Docket No. 080408-EG
Exhibit No. 51 (JAM 17)
Page 2 of 11

Exhibit No. (JAM 17) List of Measures That Are Eliminated Based on 2 Year Payback Criteria

10-300-309 Duct/Pipe Insulation 10-320-327 DX Coil Cleaning 10-320-328 Optimize Controls 10-320-329 Aerosole Duct Sealing 10-320-330 Duct/Pipe Insulation 10-340-344 Aerosole Duct Sealing 10-340-345 Duct/Pipe Insulation 10-360-361 HE PTAC, EER=9.6, 1 ton 10-600-608 Heat Recovery Unit 10-600-609 Heat Trap 10-700-701 PC Manual Power Management Enabling 10-700-702 PC Network Power Management Enabling 10-710-711 Energy Star or Better Monitor 10-710-712 Monitor Power Management Enabling 10-720-721 Energy Star or Better Monitor 10-730-731 Energy Star or Better Copier 10-730-732 Copier Power Management Enabling 10-740-741 Printer Power Management Enabling 10-900-901 Vending Misers (cooled machines only) 1-110-111 Premium T8, Elecctronic Ballast 1-110-112 Premium T8, EB, Reflector 1-110-114 Continuous Dimming 1-110-115 Lighting Control Tuneup 11-110-111 Premium T8, Electronic Ballast 11-110-112 Premium T8, EB, Reflector 11-110-114 Continuous Dimming 11-110-115 Lighting Control Tuneup 11-120-121 ROB Premium T8, 1EB 11-120-122 ROB Premium T8, EB, Reflector 11-120-124 Lighting Control Tuneup 11-130-131 CFL Screw-in 18W 11-140-141 CFL Hardwired, Modular 18W 11-150-151 PSMH, 250W, magnetic ballast 11-150-153 High Bay T5 11-160-161 LED Exit Sign 1-120-121 ROB Premium T8, 1EB 1-120-122 ROB Premium T8, EB, Reflector 1-120-124 Lighting Control Tuneup 11-300-308 Aerosole Duct Sealing 11-300-309 Duct/Pipe Insulation 1-130-131 CFL Screw-in 18W 11-320-327 DX Coil Cleaning 11-320-328 Optimize Controls 11-320-329 Aerosole Duct Sealing 11-320-330 Duct/Pipe Insulation 11-340-344 Aerosole Duct Sealing 11-340-345 Duct/Pipe Insulation 1-140-141 CFL Hardwired, Modular 18W 1-150-151 PSMH, 250W, magnetic ballast 1-150-153 High Bay T5

11-600-609 Heat Trap

1-160-161 LED Exit Sign 11-700-701 PC Manual Power Management Enabling 11-700-702 PC Network Power Management Enabling 11-710-711 Energy Star or Better Monitor 11-710-712 Monitor Power Management Enabling 11-720-721 Energy Star or Better Monitor 11-730-731 Energy Star or Better Copier 11-730-732 Copier Power Management Enabling 11-740-741 Printer Power Management Enabling 11-900-901 Vending Misers (cooled machines only) 11-900-901 Vending Misers (cooled machines only) 1-200-202 Outdoor Lighting Controls (Photocell/Timeclock) 1-300-307 EMS Optimization 1-300-308 Aerosole Duct Sealing 1-300-309 Duct/Pipe Insulation 1-320-327 DX Coil Cleaning 1-320-328 Optimize Controls 1-320-329 Aerosole Duct Sealing 1-320-330 Duct/Pipe Insulation 1-340-344 Aerosole Duct Sealing 1-340-345 Duct/Pipe Insulation 1-400-403 Air Handler Optimization 1-600-609 Heat Trap 1-700-701 PC Manual Power Management Enabling 1-700-702 PC Network Power Management Enabling 1-710-711 Energy Star or Better Monitor 1-710-712 Monitor Power Management Enabling 1-720-721 Energy Star or Better Monitor 1-730-731 Energy Star or Better Copier 1-730-732 Copier Power Management Enabling 1-740-741 Printer Power Management Enabling 1-900-901 Vending Misers (cooled machines only) 2-110-111 Premium T8, Electronic Ballast 2-110-112 Premium T8, EB, Reflector 2-110-114 Continuous Dimming 2-110-115 Lighting Control Tuneup 2-120-121 ROB Premium T8, 1EB 2-120-122 ROB Premium T8, EB, Reflector 2-120-124 Lighting Control Tuneup 2-130-131 CFL Screw-in 18W 2-140-141 CFL Hardwired, Modular 18W 2-150-151 PSMH, 250W, magnetic ballast 2-150-153 High Bay T5 2-160-161 LED Exit Sign 2-300-301 Centrifugal Chiller, 0.51 kW/ton, 500 tons 2-300-305 Chiller Tune Up/Diagnostics 2-300-306 VSD for Chiller Pumps and Towers 2-300-307 EMS Optimization 2-300-308 Aerosole Duct Sealing 2-300-309 Duct/Pipe Insulation 2-320-323 Geothermal Heat Pump, EER=13, 10 tons

Progress Energy Florida Docket No. 080408-EG Exhibit No. 51 (JAM 17) Page 3 of 11

Exhibit No. (JAM 17) List of Measures That Are Eliminated Based on 2 Year Payback Criteria

2-320-326 DX Tune Up/ Advanced Diagnostics

2-320-327 DX Coil Cleaning

2-320-328 Optimize Controls

2-320-329 Aerosole Duct Sealing

2-320-330 Duct/Pipe Insulation

2-320-332 Window Film (Standard)

2-320-334 Ceiling Insulation

2-320-335 Roof Insulation

2-340-342 Geothermal Heat Pump, EER=13, 10 tons

2-340-344 Aerosole Duct Sealing

2-340-345 Duct/Pipe Insulation

2-340-347 Window Film (Standard)

2-340-349 Ceiling Insulation

2-340-350 Roof Insulation

2-360-361 HE PTAC, EER=9.6, 1 ton

2-400-403 Air Handler Optimization

2-400-407 Separate Makeup Air / Exhaust Hoods AC

2-600-608 Heat Recovery Unit

2-600-609 Heat Trap

2-700-701 PC Manual Power Management Enabling

2-700-702 PC Network Power Management Enabling

2-710-711 Energy Star or Better Monitor

2-710-712 Monitor Power Management Enabling

2-720-721 Energy Star or Better Monitor

2-730-731 Energy Star or Better Copier

2-730-732 Copier Power Management Enabling

2-740-741 Printer Power Management Enabling

2-900-901 Vending Misers (cooled machines only)

3-110-111 Premium T8, Electronic Ballast

3-110-112 Premium T8, EB, Reflector

3-110-114 Continuous Dimming

3-110-115 Lighting Control Tuneup 3-120-121 ROB Premium T8, 1EB

3-120-122 ROB Premium T8, EB, Reflector

3-120-124 Lighting Control Tuneup

3-130-131 CFL Screw-in 18W

3-140-141 CFL Hardwired, Modular 18W

3-150-151 PSMH, 250W, magnetic ballast

3-150-153 High Bay T5

3-160-161 LED Exit Sign

3-200-202 Outdoor Lighting Controls (Photocell/Timeclock)

3-300-301 Centrifugal Chiller, 0.51 kW/ton, 500 tons

3-300-306 VSD for Chiller Pumps and Towers

3-300-307 EMS Optimization

3-300-308 Aerosole Duct Sealing

3-300-309 Duct/Pipe Insulation

3-320-327 DX Coil Cleaning

3-320-328 Optimize Controls

3-320-329 Aerosole Duct Sealing

3-320-330 Duct/Pipe Insulation

3-340-344 Aerosole Duct Sealing

3-340-345 Duct/Pipe Insulation

3-360-361 HE PTAC, EER=9.6, 1 ton

3-400-404 Electronically Commutated Motors (ECM) on an

Air Handler Unit

3-600-609 Heat Trap

3-700-701 PC Manual Power Management Enabling

3-700-702 PC Network Power Management Enabling

3-710-711 Energy Star or Better Monitor

3-710-712 Monitor Power Management Enabling

3-720-721 Energy Star or Better Monitor

3-730-731 Energy Star or Better Copier

3-730-732 Copier Power Management Enabling

3-740-741 Printer Power Management Enabling

3-900-901 Vending Misers (cooled machines only)

4-110-111 Premium T8, Electronic Ballast

4-110-112 Premium T8, EB, Reflector

4-110-114 Continuous Dimming

4-110-115 Lighting Control Tuneup

4-120-121 ROB Premium T8, 1EB

4-120-122 ROB Premium T8, EB, Reflector

4-120-122 ROD Fleithuill 16, EB, Reliecto

4-120-124 Lighting Control Tuneup

4-130-131 CFL Screw-in 18W

4-140-141 CFL Hardwired, Modular 18W

4-150-151 PSMH, 250W, magnetic ballast

4-150-153 High Bay T5

4-160-161 LED Exit Sign

4-200-202 Outdoor Lighting Controls (Photocell/Timeclock)

4-300-301 Centrifugal Chiller, 0.51 kW/ton, 500 tons

4-300-305 Chiller Tune Up/Diagnostics

4-300-306 VSD for Chiller Pumps and Towers

4-300-307 EMS Optimization

4-300-308 Aerosole Duct Sealing

4-300-309 Duct/Pipe Insulation

4-320-326 DX Tune Up/ Advanced Diagnostics

4-320-327 DX Coil Cleaning

4-320-328 Optimize Controls

4-320-329 Aerosole Duct Sealing

4-320-330 Duct/Pipe Insulation

4-320-332 Window Film (Standard)

4-320-334 Ceiling Insulation

4-320-335 Roof Insulation

4-340-342 Geothermal Heat Pump, EER=13, 10 tons

4-340-344 Aerosole Duct Sealing

4-340-345 Duct/Pipe Insulation

4-340-347 Window Film (Standard)

4-340-349 Ceiling Insulation

4-400-401 High Efficiency Fan Motor, 15hp, 1800rpm, 92.4%

4-400-402 Variable Speed Drive Control

4-400-403 Air Handler Optimization

4-400-407 Separate Makeup Air / Exhaust Hoods AC

4-500-502 Strip curtains for walk-ins

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Exhibit No. (JAM 17) List of Measures That Are Eliminated Based on 2 Year Payback Criteria

4-500-503 Night covers for display cases 4-500-505 Efficient compressor motor 4-500-507 Floating head pressure controls 4-500-508 Refrigeration Commissioning 4-500-509 Demand Hot Gas Defrost 4-500-510 Demand Defrost Electric 4-500-511 Anti-sweat (humidistat) controls 4-500-516 Freezer-Cooler Replacement Gaskets 4-600-608 Heat Recovery Unit 4-600-609 Heat Trap 4-700-701 PC Manual Power Management Enabling 4-700-702 PC Network Power Management Enabling 4-710-711 Energy Star or Better Monitor 4-710-712 Monitor Power Management Enabling 4-720-721 Energy Star or Better Monitor 4-730-731 Energy Star or Better Copier 4-730-732 Copier Power Management Enabling 4-740-741 Printer Power Management Enabling 4-900-901 Vending Misers (cooled machines only) 5-110-111 Premium T8, Electronic Ballast 5-110-112 Premium T8, EB, Reflector 5-110-114 Continuous Dimming 5-110-115 Lighting Control Tuneup 5-120-122 ROB Premium T8, EB, Reflector 5-120-124 Lighting Control Tuneup 5-130-131 CFL Screw-in 18W -5-140-141 CFL Hardwired, Modular 18W 5-150-151 PSMH, 250W, magnetic ballast 5-150-153 High Bay T5 5-160-161 LED Exit Sign 5-200-202 Outdoor Lighting Controls (Photocell/Timeclock) 5-300-307 EMS Optimization 5-300-308 Aerosole Duct Sealing 5-300-309 Duct/Pipe Insulation 5-320-327 DX Coil Cleaning 5-320-328 Optimize Controls 5-320-329 Aerosole Duct Sealing 5-320-330 Duct/Pipe Insulation 5-340-344 Aerosole Duct Seating 5-340-345 Duct/Pipe Insulation 5-400-403 Air Handler Optimization 5-600-603 Heat Pump Water Heater (air source) 5-600-608 Heat Recovery Unit 5-600-609 Heat Trap 5-700-701 PC Manual Power Management Enabling 5-700-702 PC Network Power Management Enabling 5-710-711 Energy Star or Better Monitor 5-710-712 Monitor Power Management Enabling 5-720-721 Energy Star or Better Monitor 5-730-731 Energy Star or Better Copier

5-730-732 Copier Power Management Enabling

5-740-741 Printer Power Management Enabling 5-900-901 Vending Misers (cooled machines only) 6-110-111 Premium T8, Electronic Ballast 6-110-114 Continuous Dimming 6-110-115 Lighting Control Tuneup 6-120-124 Lighting Control Tuneup 6-130-131 CFL Screw-in 18W 6-140-141 CFL Hardwired, Modular 18W 6-150-151 PSMH, 250W, magnetic ballast 6-150-153 High Bay T5 6-160-161 LED Exit Sign 6-200-202 Outdoor Lighting Controls (Photocell/Timeclock) 6-210-211 Outdoor Lighting Controls (Photocell/Timeclock) 6-300-307 EMS Optimization 6-300-308 Aerosole Duct Sealing 6-300-309 Duct/Pipe Insulation 6-320-327 DX Coil Cleaning 6-320-328 Optimize Controls 6-320-329 Aerosole Duct Sealing 6-320-330 Duct/Pipe Insulation 6-340-344 Aerosole Duct Sealing 6-340-345 Duct/Pipe Insulation 6-400-403 Air Handler Optimization 6-400-404 Electronically Commutated Motors (ECM) on an Air Handler Unit 6-600-603 Heat Pump Water Heater (air source) 6-600-606 Demand controlled circulating systems 6-600-609 Heat Trap 6-700-701 PC Manual Power Management Enabling 6-700-702 PC Network Power Management Enabling 6-710-711 Energy Star or Better Monitor 6-710-712 Monitor Power Management Enabling 6-720-721 Energy Star or Better Monitor 6-730-731 Energy Star or Better Copier 6-730-732 Copier Power Management Enabling 6-740-741 Printer Power Management Enabling 6-900-901 Vending Misers (cooled machines only) 7-110-111 Premium T8, Electronic Ballast 7-110-112 Premium T8, EB, Reflector 7-110-114 Continuous Dimming 7-110-115 Lighting Control Tuneup 7-120-121 ROB Premium T8, 1EB 7-120-122 ROB Premium T8, EB, Reflector 7-120-124 Lighting Control Tuneup 7-130-131 CFL Screw-in 18W 7-140-141 CFL Hardwired, Modular 18W 7-150-151 PSMH, 250W, magnetic ballast 7-150-153 High Bay T5 7-160-161 LED Exit Sign 7-200-202 Outdoor Lighting Controls (Photocell/Timeclock)

7-300-301 Centrifugal Chiller, 0.51 kW/ton, 500 tons

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Exhibit No. (JAM 17) List of Measures That Are Eliminated Based on 2 Year Payback Criteria

7-300-302 High Efficiency Chiller Motors

7-300-304 EMS - Chiller

7-300-305 Chiller Tune Up/Diagnostics

7-300-306 VSD for Chiller Pumps and Towers

7-300-307 EMS Optimization

7-300-308 Aerosole Duct Seating

7-300-309 Duct/Pipe Insulation

7-300-311 Window Film (Standard)

7-320-323 Geothermal Heat Pump, EER=13, 10 tons

7-320-326 DX Tune Up/ Advanced Diagnostics

7-320-327 DX Coil Cleaning

7-320-328 Optimize Controls

7-320-329 Aerosole Duct Sealing

7-320-330 Duct/Pipe Insulation

7-320-332 Window Film (Standard)

7-320-334 Ceiling Insulation

7-320-335 Roof Insulation

7-340-342 Geothermal Heat Pump, EER=13, 10 tons

7-340-344 Aerosole Duct Sealing

7-340-345 Duct/Pipe Insulation

7-340-347 Window Film (Standard)

7-340-349 Ceiling Insulation

7-340-350 Roof Insulation

7-360-361 HE PTAC, EER=9.6, 1 ton

7-400-401 High Efficiency Fan Motor, 15hp, 1800rpm, 92.4%

7-400-402 Variable Speed Drive Control

7-400-403 Air Handler Optimization

7-400-404 Electronically Commutated Motors (ECM) on an

Air Handler Unit

7-600-601 High Efficiency Water Heater (electric)

7-600-603 Heat Pump Water Heater (air source)

7-600-606 Demand controlled circulating systems

7-600-608 Heat Recovery Unit

7-600-609 Heat Trap

7-700-701 PC Manual Power Management Enabling

7-700-702 PC Network Power Management Enabling

7-710-711 Energy Star or Better Monitor

7-710-712 Monitor Power Management Enabling

7-720-721 Energy Star or Better Monitor

7-730-731 Energy Star or Better Copier

7-730-732 Copier Power Management Enabling

7-740-741 Printer Power Management Enabling

7-900-901 Vending Misers (cooled machines only)

8-110-111 Premium T8, Electronic Ballast

8-110-112 Premium T8, EB, Reflector

8-110-114 Continuous Dimming

8-110-115 Lighting Control Tuneup

8-120-121 ROB Premium T8, 1EB

8-120-122 ROB Premium T8, EB, Reflector

8-120-124 Lighting Control Tuneup

8-130-131 CFL Screw-in 18W

8-140-141 CFL Hardwired, Modular 18W

8-150-151 PSMH, 250W, magnetic ballast

8-150-153 High Bay T5

8-160-161 LED Exit Sign

8-200-202 Outdoor Lighting Controls (Photocell/Timeclock)

8-300-305 Chiller Tune Up/Diagnostics

8-300-307 EMS Optimization

8-300-308 Aerosole Duct Sealing

8-300-309 Duct/Pipe Insulation

8-320-327 DX Coil Cleaning

8-320-328 Optimize Controls

8-320-329 Aerosole Duct Sealing

8-320-330 Duct/Pipe Insulation

8-340-344 Aerosole Duct Sealing

8-340-345 Duct/Pipe Insulation

8-400-403 Air Handler Optimization

8-600-606 Demand controlled circulating systems

8-600-608 Heat Recovery Unit

8-600-609 Heat Trap

8-700-701 PC Manual Power Management Enabling

8-700-702 PC Network Power Management Enabling

8-710-711 Energy Star or Better Monitor

8-710-712 Monitor Power Management Enabling

8-720-721 Energy Star or Better Monitor

8-730-731 Energy Star or Better Copier

8-730-732 Copier Power Management Enabling

8-740-741 Printer Power Management Enabling

8-900-901 Vending Misers (cooled machines only)

9-110-111 Premium T8, Elecctronic Ballast

9-110-112 Premium T8, EB, Reflector

9-110-115 Lighting Control Tuneup

9-120-121 ROB Premium T8, 1EB

9-120-122 ROB Premium T8, EB, Reflector

9-130-131 CFL Screw-in 18W

9-140-141 CFL Hardwired, Modular 18W

9-150-151 PSMH, 250W, magnetic ballast

9-150-153 High Bay T5

9-160-161 LED Exit Sign

9-200-202 Outdoor Lighting Controls (Photocell/Timeclock)

9-300-308 Aerosole Duct Sealing

9-300-309 Duct/Pipe Insulation

9-320-327 DX Coil Cleaning

9-320-329 Aerosole Duct Sealing

9-320-330 Duct/Pipe Insulation

9-340-344 Aerosole Duct Sealing

9-340-345 Duct/Pipe Insulation

9-600-609 Heat Trap

9-700-701 PC Manual Power Management Enabling

9-700-702 PC Network Power Management Enabling

9-710-711 Energy Star or Better Monitor

9-710-712 Monitor Power Management Enabling

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Exhibit No. (JAM 17) List of Measures That Are Eliminated Based on 2 Year Payback Criteria

9-720-721 Energy Star or Better Monitor 9-730-731 Energy Star or Better Copier 9-730-732 Copier Power Management Enabling 9-740-741 Printer Power Management Enabling 9-900-901 Vending Misers (cooled machines only)

Industrial 5 800 803 CFL Screw-in 18W 14 800 803 CFL Screw-in 18W 1 800 803 CFL Screw-in 18W 7 800 803 CFL Screw-in 18W 13 800 803 CFL Screw-in 18W 15 800 803 CFL Screw-in 18W 10 800 803 CFL Screw-in 18W 12 800 803 CFL Screw-in 18W 9 800 803 CFL Screw-in 18W 11 800 803 CFL Screw-in 18W 2 800 803 CFL Screw-in 18W 16 800 803 CFL Screw-in 18W 8 800 803 CFL Screw-in 18W 3 800 803 CFL Screw-in 18W 4 800 803 CFL Screw-in 18W 6 800 803 CFL Screw-in 18W 7 200 209 Fans - ASD (6-100 hp) 6 200 209 Fans - ASD (6-100 hp) 9 200 209 Fans - ASD (6-100 hp) 4 200 209 Fans - ASD (6-100 hp) 16 200 209 Fans - ASD (6-100 hp) 15 200 209 Fans - ASD (6-100 hp) 13 200 209 Fans - ASD (6-100 hp) 5 200 209 Fans - ASD (6-100 hp) 1 200 209 Fans - ASD (6-100 hp) 8 200 209 Fans - ASD (6-100 hp) 11 200 209 Fans - ASD (6-100 hp) 14 200 209 Fans - ASD (6-100 hp) 3 200 209 Fans - ASD (6-100 hp) 10 200 209 Fans - ASD (6-100 hp) 12 200 209 Fans - ASD (6-100 hp) 2 200 209 Fans - ASD (6-100 hp) 7 300 309 Pumps - ASD (6-100 hp) 6 300 309 Pumps - ASD (6-100 hp) 9 300 309 Pumps - ASD (6-100 hp) 4 300 309 Pumps - ASD (6-100 hp) 16 300 309 Pumps - ASD (6-100 hp) 15 300 309 Pumps - ASD (6-100 hp) 13 300 309 Pumps - ASD (6-100 hp) 5 300 309 Pumps - ASD (6-100 hp) 1 300 309 Pumps - ASD (6-100 hp) 8 300 309 Pumps - ASD (6-100 hp) 11 300 309 Pumps - ASD (6-100 hp) 14 300 309 Pumps - ASD (6-100 hp)

3 300 309 Pumps - ASD (6-100 hp) 10 300 309 Pumps - ASD (6-100 hp) 12 300 309 Pumps - ASD (6-100 hp) 2 300 309 Pumps - ASD (6-100 hp) 7 100 109 Comp Air - ASD (6-100 hp) 6 100 109 Comp Air - ASD (6-100 hp) 9 100 109 Comp Air - ASD (6-100 hp) 4 100 109 Comp Air - ASD (6-100 hp) 16 100 109 Comp Air - ASD (6-100 hp) 15 100 109 Comp Air - ASD (6-100 hp) 13 100 109 Comp Air - ASD (6-100 hp) 5 100 109 Comp Air - ASD (6-100 hp) 1 100 109 Comp Air - ASD (6-100 hp) 8 100 109 Comp Air - ASD (6-100 hp) 11 100 109 Comp Air - ASD (6-100 hp) 14 100 109 Comp Air - ASD (6-100 hp) 3 100 109 Comp Air - ASD (6-100 hp) 10 100 109 Comp Air - ASD (6-100 hp) 12 100 109 Comp Air - ASD (6-100 hp) 2 100 109 Comp Air - ASD (6-100 hp) 7 720 727 Aerosole Duct Sealing 6 720 727 Aerosole Duct Sealing 9 720 727 Aerosole Duct Sealing 4 720 727 Aerosole Duct Sealing 16 720 727 Aerosole Duct Sealing 15 720 727 Aerosole Duct Sealing 13 720 727 Aerosole Duct Sealing 5 720 727 Aerosole Duct Sealing 1 720 727 Aerosole Duct Sealing 8 720 727 Aerosole Duct Sealing 11 720 727 Aerosole Duct Sealing 14 720 727 Aerosole Duct Sealing 3 720 727 Aerosole Duct Sealing 10 720 727 Aerosole Duct Sealing 12 720 727 Aerosole Duct Sealing 2 720 727 Aerosole Duct Sealing 8 400 417 O&M - Extruders/Injection Moulding 2 300 301 Pumps - O&M 12 300 301 Pumps - O&M 10 300 301 Pumps - O&M 3 300 301 Pumps - O&M 14 300 301 Pumps - O&M 11 300 301 Pumps - O&M 8 300 301 Pumps - O&M 5 300 301 Pumps - O&M 1 300 301 Pumps - O&M 13 300 301 Pumps - O&M 15 300 301 Pumps - O&M 16 300 301 Pumps - O&M 9 300 301 Pumps - O&M 4 300 301 Pumps - O&M

7 300 301 Pumps - O&M 6 300 301 Pumps - O&M 1 400 401 Bakery - Process (Mixing) - O&M 2 100 104 Compressed Air-Sizing 12 100 104 Compressed Air-Sizing 10 100 104 Compressed Air-Sizing 3 100 104 Compressed Air- Sizing 14 100 104 Compressed Air-Sizing 11 100 104 Compressed Air-Sizing 8 100 104 Compressed Air-Sizing 5 100 104 Compressed Air-Sizing 1 100 104 Compressed Air-Sizing 13 100 104 Compressed Air-Sizing 15 100 104 Compressed Air-Sizing 16 100 104 Compressed Air-Sizing 9 100 104 Compressed Air-Sizing 4 100 104 Compressed Air-Sizing 7 100 104 Compressed Air-Sizing 6 100 104 Compressed Air-Sizing 6 720 725 DX Coil Cleaning 5 720 725 DX Coil Cleaning 10 720 725 DX Coil Cleaning 7 720 725 DX Coil Cleaning 11 720 725 DX Coil Cleaning 15 720 725 DX Coll Cleaning 14 720 725 DX Coil Cleaning 13 720 725 DX Coil Cleaning 16 720 725 DX Coil Cleaning 12 720 725 DX Coil Cleaning 8 720 725 DX Coil Cleaning 2 720 725 DX Coil Cleaning 9 720 725 DX Coil Cleaning 1 720 725 DX Coil Cleaning 3 720 725 DX Coil Cleaning 4 720 725 DX Coil Cleaning 2 200 201 Fans - O&M 12 200 201 Fans - O&M 10 200 201 Fans - O&M 3 200 201 Fans - O&M 14 200 201 Fans - O&M 11 200 201 Fans - O&M 8 200 201 Fans - O&M 5 200 201 Fans - O&M 1 200 201 Fans - O&M 13 200 201 Fans - O&M 15 200 201 Fans - O&M 16 200 201 Fans - O&M 9 200 201 Fans - O&M 4 200 201 Fans - O&M 7 200 201 Fans - O&M 1 300 302 Pumps - Controls 6 200 201 Fans - O&M 13 300 302 Pumps - Controls

1 550 551 Efficient Refrigeration - Operations 2 100 101 Compressed Air-O&M 12 100 101 Compressed Air-O&M 10 100 101 Compressed Air-O&M 3 100 101 Compressed Air-O&M 14 100 101 Compressed Air-O&M 11 100 101 Compressed Air-O&M 8 100 101 Compressed Air-O&M 5 100 101 Compressed Air-O&M 1 100 101 Compressed Air-O&M 13 100 101 Compressed Air-O&M 15 100 101 Compressed Air-O&M 16 100 101 Compressed Air-O&M 4 100 101 Compressed Air-O&M 9 100 101 Compressed Air-O&M 7 100 101 Compressed Air-O&M 6 100 101 Compressed Air-O&M 3 400 403 Air conveying systems 5 800 801 Premium T8, Electronic Ballast 16 800 801 Premium T8, Electronic Ballast 15 800 801 Premium T8, Electronic Ballast 14 800 801 Premium T8, Electronic Ballast 13 800 801 Premium T8, Electronic Ballast 2 800 801 Premium T8, Electronic Ballast 3 800 801 Premium T8, Elecctronic Ballast 12 800 801 Premium T8, Electronic Ballast 7 800 801 Premium T8, Electronic Baltast 6 800 801 Premium T8, Electronic Ballast 11 800 801 Premium T8, Electronic Ballast 4 800 801 Premium T8, Electronic Ballast 1 800 801 Premium T8, Elecctronic Ballast 8 800 801 Premium T8, Electronic Ballast 9 800 801 Premium T8, Electronic Ballast 14 400 427 Drives - Optimization process (M&T) 14 500 510 Heating - Optimization process (M&T) 10 800 801 Premium T8, Electronic Ballast 15 400 427 Drives - Optimization process (M&T) 12 400 427 Drives - Optimization process (M&T) 12 500 510 Heating - Optimization process (M&T) 11 400 427 Drives - Optimization process (M&T) 11 500 510 Heating - Optimization process (M&T) 2 300 302 Pumps - Controls 12 300 302 Pumps - Controls 10 300 302 Pumps - Controls 3 300 302 Pumps - Controls 14 300 302 Pumps - Controls 11 300 302 Pumps - Controls 8 300 302 Pumps - Controls 5 300 302 Pumps - Controls

15 300 302 Pumps - Controls 16 300 302 Pumps - Controls 9 300 302 Pumps - Controls 4 300 302 Pumps - Controls 7 300 302 Pumps - Controls 6 300 302 Pumps - Controls 7 700 707 Aerosole Duct Sealing - Chiller 6 700 707 Aerosole Duct Sealing - Chiller 9 700 707 Aerosole Duct Sealing - Chiller 4 700 707 Aerosole Duct Sealing - Chiller 16 700 707 Aerosole Duct Sealing - Chiller 15 700 707 Aerosole Duct Sealing - Chiller 13 700 707 Aerosole Duct Sealing - Chiller 5 700 707 Aerosole Duct Sealing - Chiller 1 700 707 Aerosole Duct Sealing - Chiller 8 700 707 Aerosole Duct Sealing - Chiller 11 700 707 Aerosole Duct Sealing - Chiller 14 700 707 Aerosole Duct Sealing - Chiller 3 700 707 Aerosole Duct Sealing - Chiller 10 700 707 Aerosole Duct Sealing - Chiller 12 700 707 Aerosole Duct Sealing - Chiller 2 700 707 Aerosole Duct Sealing - Chiller 2 100 103 Compressed Air - System Optimization 12 100 103 Compressed Air - System Optimization 10 100 103 Compressed Air - System Optimization 3 100 103 Compressed Air - System Optimization 14 100 103 Compressed Air - System Optimization 11 100 103 Compressed Air - System Optimization 8 100 103 Compressed Air - System Optimization 5 100 103 Compressed Air - System Optimization 1 100 103 Compressed Air - System Optimization 13 100 103 Compressed Air - System Optimization 15 100 103 Compressed Air - System Optimization 16 100 103 Compressed Air - System Optimization 4 100 103 Compressed Air - System Optimization 9 100 103 Compressed Air - System Optimization 6 100 103 Compressed Air - System Optimization 7 100 103 Compressed Air - System Optimization 10 500 507 Near Net Shape Casting 9 800 804 High Bay T5 7 800 804 High Bay T5 6 800 804 High Bay T5 7 200 212 Fans - ASD (100+ hp) 6 200 212 Fans - ASD (100+ hp) 9 200 212 Fans - ASD (100+ hp) 4 200 212 Fans - ASD (100+ hp) 16 200 212 Fans - ASD (100+ hp) 15 200 212 Fans - ASD (100+ hp) 13 200 212 Fans - ASD (100+ hp) 5 200 212 Fans - ASD (100+ hp) 1 200 212 Fans - ASD (100+ hp)

8 200 212 Fans - ASD (100+ hp) 11 200 212 Fans - ASD (100+ hp) 14 200 212 Fans - ASD (100+ hp) 3 200 212 Fans - ASD (100+ hp) 10 200 212 Fans - ASD (100+ hp) 12 200 212 Fans - ASD (100+ hp) 2 200 212 Fans - ASD (100+ hp) 4 400 407 High Consistency forming 2 800 804 High Bay T5 3 800 804 High Bay T5 12 800 804 High Bay T5 1 800 804 High Bay T5 4 400 406 Gap Forming papermachine 11 800 804 High Bay T5 14 800 804 High Bay T5 15 800 804 High Bay T5 4 800 804 High Bay T5 10 800 804 High Bay T5 5 800 804 High Bay T5 13 800 804 High Bay T5 5 400 409 Efficient practices printing press 16 800 804 High Bay T5 8 800 804 High Bay T5 9 500 504 Top-heating (glass) 2 200 204 Fans- Improve components 12 200 204 Fans- Improve components 10 200 204 Fans- improve components 3 200 204 Fans-Improve components 14 200 204 Fans-Improve components 11 200 204 Fans- Improve components 8 200 204 Fans-Improve components 5 200 204 Fans- Improve components 1 200 204 Fans-Improve components 13 200 204 Fans- Improve components 15 200 204 Fans- Improve components 16 200 204 Fans- Improve components 9 200 204 Fans-Improve components 4 200 204 Fans- Improve components 7 200 204 Fans-Improve components 6 200 204 Fans- Improve components 1 500 501 Bakery - Process 9 400 423 Process control 3 400 404 Replace V-Belts 2 300 304 Pumps - Sizing 12 300 304 Pumps - Sizing 10 300 304 Pumps - Sizing 3 300 304 Pumps - Sizing 14 300 304 Pumps - Sizing 11 300 304 Pumps - Sizing 8 300 304 Pumps - Sizing 5 300 304 Pumps - Sizing

	그렇지는 보고 점하는 보험을 하고 있는 그 물을 하고 있는 하는 모든 모든 사람들이 되었다.
1 300 304 Pumps - Sizing	2 720 726 Optimize Controls
13 300 304 Pumps - Sizing	9 720 726 Optimize Controls
15 300 304 Pumps - Sizing	1 720 726 Optimize Controls
16 300 304 Pumps - Sizing	3 720 726 Optimize Controls
4 300 304 Pumps - Sizing	4 720 726 Optimize Controls
9 300 304 Pumps - Sizing	9 400 405 Drives - EE motor
7 300 304 Pumps - Sizing	7 600 607 Refinery Controls
6 300 304 Pumps - Sizing	2 200 213 Fans - Motor practices-1 (100+ HP)
7 300 312 Pumps - ASD (100+ hp)	12 200 213 Fans - Motor practices-1 (100+ HP)
6 300 312 Pumps - ASD (100+ hp)	10 200 213 Fans - Motor practices-1 (100+ HP)
9 300 312 Pumps - ASD (100+ hp)	3 200 213 Fans - Motor practices-1 (100+ HP)
4 300 312 Pumps - ASD (100+ hp)	14 200 213 Fans - Motor practices-1 (100+ HP)
16 300 312 Pumps - ASD (100+ hp)	11 200 213 Fans - Motor practices-1 (100+ HP)
15 300 312 Pumps - ASD (100+ hp)	8 200 213 Fans - Motor practices-1 (100+ HP)
13 300 312 Pumps - ASD (100+ hp)	5 200 213 Fans - Motor practices-1 (100+ HP)
5 300 312 Pumps - ASD (100+ hp)	1 200 213 Fans - Motor practices-1 (100+ HP)
1 300 312 Pumps - ASD (100+ hp)	13 200 213 Fans - Motor practices-1 (100+ HP)
8 300 312 Pumps - ASD (100+ hp)	15 200 213 Fans - Motor practices-1 (100+ HP)
11 300 312 Pumps - ASD (100+ hp)	16 200 213 Fans - Motor practices-1 (100+ HP)
14 300 312 Pumps - ASD (100+ hp)	4 200 213 Fans - Motor practices-1 (100+ HP)
3 300 312 Pumps - ASD (100+ hp)	9 200 213 Fans - Motor practices-1 (100+ HP)
10 300 312 Pumps - ASD (100+ hp)	6 200 213 Fans - Motor practices-1 (100+ HP)
12 300 312 Pumps - ASD (100+ hp)	16 800 802 CFL Hardwired, Modular 18W
2 300 312 Pumps - ASD (100+ hp)	5 800 802 CFL Hardwired, Modular 18W
7 100 112 Comp Air - ASD (100+ hp)	13 800 802 CFL Hardwired, Modular 18W
6 100 112 Comp Air - ASD (100+ hp)	5 900 901 Replace V-belts
9 100 112 Comp Air - ASD (100+ hp)	14 900 901 Replace V-belts
4 100 112 Comp Air - ASD (100+ hp)	1 900 901 Replace V-belts
16 100 112 Comp Air - ASD (100+ hp)	7 900 901 Replace V-belts
15 100 112 Comp Air ~ ASD (100+ hp)	13 900 901 Replace V-belts
13 100 112 Comp Air - ASD (100+ hp)	15 900 901 Replace V-belts
5 100 112 Comp Air - ASD (100+ hp)	10 900 901 Replace V-belts
1 100 112 Comp Air - ASD (100+ hp)	12 900 901 Replace V-belts
8 100 112 Comp Air - ASD (100+ hp)	9 900 901 Replace V-belts
11 100 112 Comp Air - ASD (100+ hp)	11 900 901 Replace V-belts
14 100 112 Comp Air - ASD (100+ hp)	2 900 901 Replace V-belts
3 100 112 Comp Air - ASD (100+ hp)	16 900 901 Replace V-belts
10 100 112 Comp Air - ASD (100+ hp)	8 900 901 Replace V-belts
12 100 112 Comp Air - ASD (100+ hp)	3 900 901 Replace V-belts
2 100 112 Comp Air - ASD (100+ hp)	4 900 901 Replace V-belts
6 720 726 Optimize Controls	15 800 802 CFL Hardwired, Modular 18W
5 720 726 Optimize Controls	14 800 802 CFL Hardwired, Modular 18W
10 720 726 Optimize Controls	8 800 802 CFL Hardwired, Modular 18W
7 720 726 Optimize Controls	10 400 426 Efficient drives - rolling
11 720 726 Optimize Controls	12 800 802 CFL Hardwired, Modular 18W
15 720 726 Optimize Controls	11 800 802 CFL Hardwired, Modular 18W
14 720 726 Optimize Controls	7 200 213 Fans - Motor practices-1 (100+ HP)
13 720 726 Optimize Controls	3 800 802 CFL Hardwired, Modular 18W
16 720 726 Optimize Controls	2 800 802 CFL Hardwired, Modular 18W
12 720 726 Optimize Controls	4 800 802 CFL Hardwired, Modular 18W
8 720 726 Optimize Controls	1 800 802 CFL Hardwired, Modular 18W
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10 800 802 CFL Hardwired, Modular 18W 7 800 802 CFL Hardwired, Modular 18W 6 800 802 CFL Hardwired, Modular 18W 9 800 802 CFL Hardwired, Modular 18W 7 200 216 Refinery Controls 5 400 412 Efficient drives 14 400 429 Machinery 7 700 706 EMS Optimization - Chiller 6 700 706 EMS Optimization - Chiller 9 700 706 EMS Optimization - Chiller 4 700 706 EMS Optimization - Chiller 16 700 706 EMS Optimization - Chiller 15 700 706 EMS Optimization - Chiller 13 700 706 EMS Optimization - Chiller 5 700 706 EMS Optimization - Chiller 1 700 706 EMS Optimization - Chiller 8 700 706 EMS Optimization - Chiller 11 700 706 EMS Optimization - Chiller 14 700 706 EMS Optimization - Chiller 3 700 706 EMS Optimization - Chiller 10 700 706 EMS Optimization - Chiller 12 700 706 EMS Optimization - Chiller 2 700 706 EMS Optimization - Chiller 15 400 429 Machinery 12 400 429 Machinery 11 400 429 Machinery 13 400 429 Machinery 16 400 430 Efficient Machinery 14 600 603 New transformers welding 13 600 604 Efficient processes (welding, etc.) 15 600 603 New transformers welding 12 600 603 New transformers welding 11 600 603 New transformers welding 11 500 511 Heating - Scheduling 12 500 511 Heating - Scheduling 4 400 405 Drives - EE motor 14 400 428 Drives - Scheduling 15 400 428 Drives - Scheduling 11 400 428 Drives - Scheduling 12 400 428 Drives - Scheduling 2 400 402 O&M/drives spinning machines 7 600 602 Efficient desalter 2 100 102 Compressed Air - Controls 12 100 102 Compressed Air - Controls 10 100 102 Compressed Air - Controls 3 100 102 Compressed Air - Controls 14 100 102 Compressed Air - Controls 11 100 102 Compressed Air - Controls 8 100 102 Compressed Air - Controls 5 100 102 Compressed Air - Controls 1 100 102 Compressed Air - Controls

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Exhibit No. (JAM 17) List of Measures That Are Eliminated Based on 2 Year Payback Criteria

5 100 113 Comp Air - Motor practices-1 (100+ HP) 1 100 113 Comp Air - Motor practices-1 (100+ HP) 13 100 113 Comp Air - Motor practices-1 (100+ HP) 15 100 113 Comp Air - Motor practices-1 (100+ HP) 16 100 113 Comp Air - Motor practices-1 (100+ HP) 4 100 113 Comp Air - Motor practices-1 (100+ HP) 9 100 113 Comp Air - Motor practices-1 (100+ HP) 6 100 113 Comp Air - Motor practices-1 (100+ HP) 7 100 113 Comp Air - Motor practices-1 (100+ HP)