LAW OFFICE OF **ROBERT W. KAYLOR, P.A.** 3700 GLENWOOD AVENUE, SUITE 330 **RALEIGH, NORTH CAROLINA 27612** (919) 828-5250 FACSIMILE (919) 828-5240

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Clork's Office N.C. Utilities Commission

December 21, 2011

Ms. Renné C. Vance, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4325

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RE: Docket No. E-7, Sub 831

Dear Ms. Vance:

On December 9, 2011, in compliance with the Commission's November 8, 2011 Order in Docket No. E-7, Sub 979 ("Order"), Duke Energy Carolinas, LLC ("Duke" or the "Company") filed an original and thirty copies of a list of all changes that Duke has made to existing energy efficiency and demand-side management programs and any further proposed changes to programs, with an updated evaluation of the cost effectiveness of each program. This filing was made in Docket No. E-7, Sub 979. Upon review of the Commission's Order, the Company determined that this filing was to be made in Docket No. E-7, Sub 831. Accordingly, through this letter, the Company is re-filing the list of changes in Docket No. E-7, Sub 831.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Robert Kay la

Robert W. Kaylor

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Encls.

cc: Parties of Record

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Program Name	Description of Change as	Type of Change	Status of Change 1472431	UCT.#	TRC of	RIM .	we Participant 🔬
Energy Efficiency Education ²	The Energy Efficiency Education (EEE) Program was launched offering an EE kit to individuals that completed the home energy audit. Based on the audit response, the customer may qualify for additional CFLs. The opportunity for customers to qualify for additional CFLs was eliminated in September 2010. This change was implemented to mitigate the risk associated of customers receiving CFLs from the EEE Program and residential Smart Sever CFL program via the (IVR/Web) offering. One 13 watt CFL bulb was added to the EE Kit.	Impact	September 2010 Prior to June 2009	2	2.03	0.79	
Low Income Energy Efficiency and Weatherization Program	Offered program participants 12 CFLS instead of the filed offer of 6 CFLs and 1 EE Kit.	Impact	Prior to June 2009	1.84	1.84	0.66	
Low Income Energy Efficiency and Weatherization Program	The Low Income CFL measure (12 pack of CFLs) was discontinued as a offering under Low Income Programs. The residential Smart \$aver CFL program offers free CFLs to all residential customers in North and South Carolina through the automated IVR/Web platform. Duke Energy has served more low income customers through this offer. The participation rate through the residential Smart\$aver CFL program has exceeded the participation rate in the Low Income Programs CFL offer from past years.	Impact	Januery 2011	0.37	0.37	0.28	
Non-Residential Smart <u>\$aver Prescriptive</u> ³	Incentive measure additions, within the technology categories defined in the tariff, have occurred between filing and July 2010. Measure additions were made to the high efficient lighting (majority of additions), food service, motors/pumps/drives, and process categories.	Impact	Refer to the worksheet named NRPRES Measure Extensions for a detailed listing of measure extensions.	2,86	1.78	1,13	2.35
Non-Residential Smart Şaver Prescriptive ⁴	A limited number of incentive measures originally filed have been removed from the program offerings since filing. Incentives for these measures continue to be available thru the Custom program with the exception of air cooled reciprocal chillers which are no longer imanufactured.	Impact	Refer to the worksheet named NRPRES Removed Measures for a detailed listing and explanation of measure removals,	2.82	1.79	1,13	2.37
Non-Residential Smart Şaver Prescriptive	Incentive amounts were revised (both increased and decreased) were made to measures originally filed. Revisions were made within the 50% tariff incentive cap.	Participation	Refer to the worksheets named NRPRES Increased Incentive Amts and NRPRES Decreased Incentive Amts for a detailed listing of changes.				
Residential Energy Assessments	The window tilm and a 15 watt CFL build was removed from the EE kit offered to Home Energy House Call Program participants. These two items were replaced with two 13 watt CFL bulbs. Also added additional CFLs, based on number of CFLs currently installed in the home, an average of 6.	Impact	Prior to June 2009	2,56	2.56	0.74	
s sidential Smart Saver	Residential CFL program moved from a discounted coupon (retail) offer to a free' offer.	Participation	March 2010	3,17	3.86	0.78	9.13

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Program Name	Description of Change	Type of Change	Status of Change	. UCT	TRC	RIM	Participant
Residential Smart Şavər	Residential Property Manager program allows Duke Energy to reach multi-family properties (i.e. rental customers). Duke Energy ships bulk CFLs to eligible Properties and the CFLs are installed in permanent fixtures of each unit. The Property Managers pay the shipping fee and reports installation data back to Duke. The program increases tenant satisfaction with Energy Efficiency lighting upgrades and is easy for properties to participate in the program.	Impact	Магсh 2010	3.45	2.8	0.79	6.24
¹ Type of Change is upda without having a negative	ated as an Impact Change or Participation Change. A Participation Change Impact to participation. An Impact Change is a modification that results	e is a modification than an either a decrease	t is designed to either increase participation i or increase in kWh/kW saved by a measure	n the progr	ram or im	prove th	e cost effectiveness
² Updated cost effectiven	ess scores reflect removal of six pack of CFLs and adding one 13W CFL	, to the EE klt.			_		_
³ Updated cost effectiven	ess scores reflect removed measures excluded and measures extension	s added.					
Updated cost effectiven	ess scores reflect removed measures.						
⁵ Updated cost effectiven	ess scores reflect free CFL offer and Property Manager CFL.						
^B Updated cost effectiven	ess scores reflect addition of Property Manager CFL to as filed residentia	I Smart \$aver Program	ĥ				

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Program Name	Program Description	Type of Change	Status of Change	UCT	TRC	RIM ²	Participant
Neighborhood Low Income Program	Duke Energy plans to file the Neighborhood Low Income Program for approval.	Impact	Proposed	1.49	2.86	<u>0.64</u>	
Appliance Recycling Program	Duke Energy plans to file the Appliance Recycling Program for approval.	Impact	Proposed	3.03	3.69	0.82	
Residential Smart \$aver- HVAC	Duke Energy is proposing to add additional measures to the Smart Saver portfolio including HVAC tune ups, attic insulation and air sealing, duct insulation and duct sealing. Duke Energy proposes to offer prescribed incentives for successful completion or implementation of the additional measures identified. Additional measures will be available individually or as bundled services and will be performed by local contractors who have chosen to participate in the Smart Saver program.	Impact	Proposed	2.25	1.91	0.76	4.37
Power Manager	The \$35 installation fee was inadvertently not included in the D.S. More cost effectiveness evaluations of the Power Manager program. However, the installation fee has been charged to customers who enroll in Power Manager. The \$35 is applied as a credit to the Power Manager program using the accounting codes established for Energy Efficiency. ¹	Participation	Proposed	4.46	85.67	4.46	

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					st Effec	tivenes	s Scores
Program Name	Program Description	Type of Change	Status of Change	UCT	TRC	RIM	Participant
Non-Residential Smart \$aver	Duke Energy is proposing the addition of incentive measures, within the technology categories defined in the tariff, to the existing program. Refer to the NRPRES Proposed Measures worksheet for a detailed listing of proposed measures and associated cost effectiveness scores per measure.	Impact	Proposed	· · ·			
Non-Residential Smart \$aver	Duke Energy is proposing the removal of motor incentives from the program in response to EISA 2007 which mandated the existing program minimum efficiency requirements as market standard. Motors with efficiencies higher than the market standard would continue to be eligible for Custom incentives. Evaluation is also planned to determine whether a future Prescriptive offering would be beneficial.	Participation	Proposed				

¹ The cost effectiveness scores reflect the correction to Power Manager cost effectiveness test results filed as a correction in docket E-7, Sub 831 on June 3, 2011.

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·运输Technology 後端	Statistic Program Measure Name	dincentive per Unit's	Unit of Measure Vi	Charles and Annual Reason for Modification	Data of Modification
Lighting	T-5 3 Lamp High Bay Fluorescent (replacing 150-249W HID)	\$30.00	Per Focure	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program Bunch.
Lighting	2 High Bay Fluorescent &LF32T8 (Replacing 1000W HiD)	\$120.00	Per 2 Fixtures	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	. July 2009 Measure extension was in development prior to program brunch.
Ացիմոց	High Bay 3L T-5 High Output (replacing 250-399W HID)	\$40.00	Per Fixture	Product extension under existing tariff. Per consultant recommendation, excitition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure actension was in development prior to program faunch.
Lighting	2 High Bay 6L T-5 High Output replacing 1000W HID (2 for 1 replacement)	\$120.00	Per 2 Fixtures	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 ennual portfolio review.	July 2009 Measure extension was in development prior to program launch,
Lighting	LED Case lighting	\$50.00	Per Door	Product extension under existing tartif. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch,
Lighting	LED Case lighting sensor control	\$10.00	Per Sensor	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch,
Ագիլնոց	Reduced-wattage T8 4ft 1 lamp, replacing standard T8	\$4.00	Per Fixture	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to atandardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Meesure extension was in development prior to program launch.
Lighting	Reduced-wattage T6 4ft 2 tamp, replacing standard T6	\$8,00	Per Fixture	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program taunch.
Lighting	Reduced-wattage T8 4ft 3 iamp, reptacing standard T8	\$10.00	Par Fbdure	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program taunch.
Lighting	Reduced-waitage T8 4ft 4 tamp, replacing standard T8	\$12.00	Per Fature	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch.
Lighting	High Performance 1-8 4ft 2 ismp replacing T-12 8ft 1 ismp	\$10.00	Per Fluture	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch.
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Lighting	High Performance T-8 4ft 2 lamp replacing T-12 High Output 8ft 1 lamp	\$20.00	Per Fbdure	1) <u>Stratespices relations to a momentum strategies are a set as a set a</u>	July 2009 Measure extension was in development prior to program launch.
Lighting	High Performance T-8 4ft 4 ismp replacing T-12 6ft 2 iamp	\$10.00	Per Futura	Product extension under existing taxiff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Massure extension was in development prior to program taunch.
Lighting	High Performance T-8 4ft 4 lamp replacing T-12 High Output 8ft 2 lamp	\$25.00	Per Fbture	Product extension under existing tariff. Per consultant recommendation, edition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program taunch.
Lighting	High Performance T8 4ft 1 lamp, replacing standard T8	\$4.00	Per Fixture	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch,
Lighting	High Performance T8 4ft 1 lamp, replacing T12	\$6.00	Per Fbdure	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension waa in development prior to program launch.
Lighting	High Performance T8 4ft 2 lamp, replacing standard T8	\$6.00	Per Fbdure	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program taunch.
Lighting	High Performance T6 4ft 2 lamp, replacing T12	\$8.00	Per Fixture	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program taunch.
lighting	High Performance T8 4ft 3 lamp, raplacing standard T8	\$8.20	Per Future	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectivenese as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	Juty 2009 Measure extension was in development prior to program taunch.
Lighting	High Performance T8 47t 3 lamp, replacing T12	\$12.00	Per Fixture	Product extansion under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2008 annual portfolio review.	July 2009 Measure extension was in development prior to program launch.
Lighting	High Performance T6 4ft 4 lamp, replacing standard T8	\$12.00	Per Fixture	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch.
Lighting	High Performance T8 4ft 4 tamp, replacing T12	\$16.00	Per Fixture	Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch.

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Lighting	Reduced-waitage T8 lamps replacing standard 32 Wait T-5's	\$0.50	Per Bulb	Product extension under existing twiff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios ecross states. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Measure extension was in development prior to program launch.
				Product extension under existing tariff. Per consultant recommendation, addition was performed due to market potential and cost effectiveness as well as to standardized portfolios across states. Revision timing coincides with the timing of the 2009 annual	July 2009 Measure extension was in development prior to
Food Service	Anti-eweat Hester Controls	\$40.00	Per Door	portiolio review.	program taunch.
East Candon	ENERGY STAP # (Jaco Dove Deschub Generae (#15 c) #)	5 50 20	Des Link (Environt)	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requirements for solid door refrigerators and freezers in January 2010. Per consultant recommendation, solid door atze requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to align with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Star times at least April 2009 but believed not to be included in the initial filing due to the timing of the initial meanure analysis.	
FOOD SERVICE	Chercon of Art o Glass Door Read Hit Freezer (415 to 10	\$50.00			July 2010
Food Service	ENERGY STAR & Glass Door Reach-in Freezer (15-30 cu ft)	\$75.00	Per Unit (Freezer)	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requirements for solid door refrigerators and freezers in January 2010. Per consultant recommendation, solid door size requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to align with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Start since at least April 2009 but believed not to be included in the initial filing due to the timing of the initial measure analysis.	July 2010
Food Service	ENERGY STAR® Glass Door Reach-In Freezer (31-50 cu ft)	\$100.00	Per Unit (Freezer)	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requirements for solid door refrigarators and freezers in January 2010. Per consultant recommendation, solid door size requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to align with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Star shoe at least April 2009 but believed not to be included in the initial filling due to the timing of the initial measure analysis.	July 2010
Food Service	ENERGY STAR® Glass Door Reach-in Freezer (>50 cu îi)	\$125.00	Per Unit (Freezer)	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requirements for solid door refrigerators and freezers in January 2010. Per consultant recommendation, solid door size requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to align with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Star since at least April 2009 but believed not to be included in the initial filing due to the timing of the initial measure analysis.	July 2010

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ShiTechnology 100	Antes Program Measure Name	dincentive per Unit!	Unit of Messure	Reason for Modification	LiDate of Modification
Food Service	ENERGY STAR® Glass Door Readh-In Refilg (<15 cu ft)	\$50.00	Per Unit (Refrigerstor)-	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requirements for solid door refrigerators and freezers in January 2010. Per consultant recommendation, solid door size requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to align with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Start since at least April 2009 but believed not to be included in the initial filing due to the timing of the initial measure analysis.	. July 2010 .
Food Service	ENERGY STAR® Glass Door Reach-in Refrig (15-30 cu ft)	\$75.00	Per Unit (Refrigerator)	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requiraments for solid door refrigerators and freezers in January 2010. Per consultant recommendation, solid door size requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to atign with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Star takes at least April 2009 but believed not to be included in the initial filing due to the timing of the initial measure enalysts.	July 2010
- Food Service	ENERGY STAR® Glass Door Reach-in Refrig (31-50 cu ft)	\$100.00	Per Unit (Refrigerator)	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requirements for solid door refrigerators and freezers in January 2010. Per consultant recommendation, solid door size requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to align with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Start since at least April 2009 but believed not to be included in the Initial filing due to the timing of the initial measure analysis.	July 2010
Food Service	ENERGY STAR® Glass Door Reach-In Reffig (>50 ou ft)	\$125.00	Per Unit (Refrigerator)	Measure analysis for the filing started in the 2007-2008 time period. Energy Star changed the base line requirements for solid door refrigerators and freezers in January 2010. Per consultant recommendation, solid door size requirements were changed in response to the base line revision and Energy Star glass door options were added to the program to align with Energy Star options. Revision timing coincides with the timing of the 2010 annual portfolio review. Glass door refrigerators had been rated by Energy Star since at least April 2009 but believed not to be included in the initial filing due to the timing of the initial measure analysis.	July 2010
Process Equipment	Pellet Dryer Duct Insulation 4in dia	\$18.00	Per Foot of Insulation	Product extension under existing tariff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program.	June 2009
Process Equipment	Pellet Dryer Duct Insulation 6in dia	\$30.00	Per Foot of Insulation	Product extension under existing tariff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program.	June 2009
Motors/Pumps/VFDs	7.5-20 Horse Power Motors	\$8.00	Per HP	Product extension under existing tadif. Measure initially failed cost effectiveness tost but after certain program changes subsequently passed and was added to the program.	June 2009
Motors/Pumps/VFDs	7.5-20 Horse Power Motors	\$8.00	Per HP	Product extension under existing tadif. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program.	June 2009

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Motors/Pumps/VFDs 125-250 Horse Power Motors \$4,00 Per HP Product extension under existing tariff. Measure initially failed cost effectiveness test but effer certain program changes subsequently passed and was added to the program. June 2009 Motors/Pumps/VFDs 1.5 Horse Power High Efficiency Pumps \$122.00 Per Pump Product extension under existing tariff. Measure initially failed cost effectiveness test but effer certain program changes subsequently passed and was added to the program. June - July 2009 Motors/Pumps/VFDs 1.5 Horse Power High Efficiency Pumps \$175.00 Per Pump Product extension under existing tariff. Measure initially failed cost effectiveness test but effer certain program changes subsequently passed and was added to the program. June - July 2009 Motors/Pumps/VFDs 2 Horse Power High Efficiency Pumps \$175.00 Per Pump Product extension under existing tariff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program. June - July 2009 Motors/Pumps/VFDs 2 Horse Power High Efficiency Pumps \$175.00 Per Pump Product extension under existing tariff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program. June - July 2009	Motors/Pumps/VFDs 125-250 Horse Power Motors \$4,00 Per HP Product extension under exteining tartiff. Measure initially failed cost effectiveness test but effer certain program changes subsequently passed and was added to the program. June 2009 Motors/Pumps/VFDs 1.5 Horse Power High Efficiency Pumps \$122,00 Per Pump Product extension under existing tartiff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program. June - July 200 Motors/Pumps/VFDs 1.5 Horse Power High Efficiency Pumps \$122,00 Per Pump Product extension under existing tartiff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program. June - July 200 Motors/Pumps/VFDs 2 Horse Power High Efficiency Pumps \$175,00 Per Pump Product extension under existing tartiff. Measure initially failed cost effectiveness test but alter certain program changes subsequently passed and was added to the program. June - July 200
Motors/Pumps/VFDs 1.5 Horse Power High Efficiency Pumps \$122.00 Per Pump Product extension under existing tariff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program. June - July 2009 'Motors/Pumps/VFDs 2 Horse Power High Efficiency Pumps \$175.00 Per Pump Product extension under existing tariff. Measure initially failed cost affectiveness test but after certain program changes subsequently passed and was added to the program. June - July 2009 'Motors/Pumps/VFDs 2 Horse Power High Efficiency Pumps \$175.00 Per Pump Product extension under existing tariff. Measure initially failed cost affectiveness test but after certain program changes subsequently passed and was added to the program. June - July 2009	Motors/Pumps/VFDs 1.5 Horse Power High Efficiency Pumps S122.00 Per Pump after certain program changes subsequently passed and was added to the program. June - July 200 Product extension under existing tariff. Measure initially failed cost effectiveness test but Product extension under existing tariff. Measure initially failed cost effectiveness test but Product extension under existing tariff. Measure initially failed cost effectiveness test but Product extension under existing tariff. Measure initially failed cost effectiveness test but Product extension under existing tariff. Measure initially failed cost effectiveness test but after certain program changes subsequently passed and was added to the program. June - July 200 per Pumps
Motors/Pumps/VFDa 2 Horse Power High Elitidency Pumps \$175.00 Per Pump Product extension under existing tariff. Measure initially failed cost effectiveness test but aller certain program changes subsequently passed and was edided to the program. Junc - July 2009	Motors/Pumps/VFDs 2 Horse Power High Efficiency Pumps 3 3175.00 Per Pump aller certain program changes subsequently passed and was added to the program.
Product extension under extension tartiff. Measure initially failed cost effectiveness test but	
Motors/Pumpe/VFDs 3 Horse Power High Efficiency Pumps \$175.00 Per Pump efter certain program changes subsequently passed and was added to the program. June - July 2009	Motors/Pumps/VFDs 3 Horse Power High Efficiency Pumps \$175,00 Per Pump effer certain program changes subsequently passed and was added to the program. June - July 200

Program Measure Name	As Filed incentive per Unit	Reason for Modification	# Date of Modification
Chilled Water Reset 300 tons or greater	\$185/unit	Measure was removed per consultant recommendation due to limited market potential.	June 2009
Head Pressure Control - Refrigeration System	\$16/ton	Measure was removed per consultant recommendation due to Ilmited market potential and energy saving variability.	Júne 2009
Energy Star Commercial Clothes Washers - Washer Only	\$50/washer	Measure was removed per consultant recommendation due to limited market potential.	June 2009
Energy Star Commercial Clothes Washers - Electric Dryer an	\$50/washer	Measure was removed per consultant recommendation due to limited market potential.	June 2009
Zone Shut-Off Valves - Compressed Air	\$236/valve	Measure was removed per consultant recommendation due to limited market potential.	June 2009
Air Cooled Reciprocal Chiller	Up to \$57/ton	Removed as reciprocal type chillers are no longer manufactured. Screw and scroll type air cooled chiller incentives are still offered.	March 2011

Technology at	Program Mossure Name 2	Current incentive	Qriginal Incentive	Unit of Messure	Reason for Modification 54	Date of Modification
Lighting	Occupancy Sensors over 500 Watts	\$40.00	\$20.00	Per Sensor	Increased to correct an error in the incentive amount. Incentive amounts were reversed between the over and under 500 Watts censors.	June 2009
Food Service	ENERGY STAR & Solid Door Reach-in Freezer (15-30 cu ft)	\$75.00	\$70.00	Per Unit (Freszar)	Incentive structure changed in response to a baseline efficiency change with Energy Star. As a result, a graduated incentive structure was implemented per consultant recommendation to provide a higher incentive for larger qualified models. Revision timing coincides with the timing of the 2010 annual portfolio review.	July 2010
Food Service	ENERGY STAR® Solid Door Reach-in Freezer (31-50 cu ft)	\$100,00	\$70.00	Per Unit (Freezor)	Incentive structure changed in response to a baseline efficiency change with Energy Star. As a result, a graduated incentive structure was implemented per consultant recommendation to provide a higher incentive for larger qualified models, Revision timing coincides with the timing of the 2010 annual portfolio review.	July 2010
Food Service	ENERGY STAR® Solid Door Reach-in Freezer (>50 cu ft)	\$125.00	\$70.00	Per Unit (Freezer)	Incentive structure changed in response to a baseline efficiency change with Energy Star. As a result, a graduated incentive structure was implemented per consultant recommendation to provide a higher incentive for larger qualified models. Revision timing coincides with the timing of the 2010 ennual portfolio review.	July 2010
Food Service	ENERGY STAR® Solid Door Reach-In Refrig (15-30 cu ft)	\$75.00	\$70.00	Per Unit (Retrigerator)	Incentive structure changed in response to a baseline efficiency change with Energy Star. As a readit, a graduated incentive structure was implemented per consultant recommendation to provide a higher incentive for larger qualified models. Revision timing coincides with the timing of the 2010 annual portfolio review.	July 2010

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Technology	Program Measure Name	Current Incentivela	Original Incentive	Onli of Measure	2 D Reason for Modification	Data of Modification	
Food Service	ENERGY STAR® Solid Door Reach-in Refig (31-50 cu ft)	\$100.00	\$70.00	Per Unit (Refrigerator)	Incentive structure changed in response to a basaline efficiency change with Energy Star. As a result, a graduated incentive structure was implemented per consultant recommendation to provide a higher incentive for targer qualified models. Revision timing coincides with the timing of the 2010 annual portfolio review.	July 2010	
					Incentive structure changed in response to a baseline efficiency	•	
	ENERGY STARM Solid Door	1 5 1			a graduated incentry Star. As a result, a graduated incentive structure was implemented per consultant recommendation to provide a higher incentive for larger qualified models. Revision timing coincides with the finite of the 2010 mount earthulin	-	
Food Service	Reach-in Refrig (>50 cu ft)	\$125.00	\$70.00	Per Unit (Refrigerator)	review.	July 2010	
Motor/Pumps/VFDs	Variable Frequency Drive 1.5 - 50 HP - applied to HVAC Fans	\$100.00	· \$40.00	Per Horse Power	VFD incentives were split between process pumping and HVAC per consultant recommendation to gain more accuracy with the energy savings and reflect different operating characteristics. All VFD HVAC applications (fans and pumps) were assigned an incentive of \$100.	June 2009	
Motor/Pumps/VFDs	Variable Frequency Orive 1.5 - 50 HP - applied to HVAC Condenser Pump, Hot Water Pump	\$100.00	\$40.00	Per Horse Power	VFD incentives were split between process pumping and HVAC per consultant recommendation to gain more accuracy with the energy savings and reflect different operating characteristics. All VFD HVAC applications (fans and pumps) were assigned an incentive of \$100.	June 2009	
	AC 240 000 - 780 000 BT N	E25.00	810.00	· Bar Ton	Per consultant recommendation, the Incentive was increased in an effort to increase participation while still maintaining cost effectiveness. Revision timing coincides with the timing of the 2009 annual portfolio review.	hill 2000	
	AC 240,000 - 730,000 B TOH	\$25.00				30ly 2009	1 .
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Stlechnology	Full load kW/lon - EER . K	ALL STREET	Current Base	Part Load IPL. kW/ton -	Current Additional Incentive Stion	Original Incentive	Reason for Modification	Date of Modification	
Chillers	Air Cooled Redprocal Chiller 1.23 - 9.8	All Sizes	\$8.00	0.89 - 13.5	\$24.13	\$25.00	Per consultant recommendation, incentives increased when	July 2009 Measure revision was in	
Chillen	Air Cooled Reciprocal Chiller	At Sizes	\$8.00	0.81 - 14.8	\$31,50	\$25.00	from the initial 4 chiller category	launch.	1
Chillers	Air Cooled Reciprocal Chiller 1.142 - 10.5	All Sizes	\$25.00	0.935 - 12.8	\$11.20	\$25.00	offerings. Chiller categories did not change. The revisions		
Chillens	Air Cooled Reciprocal Chiller 1.142 - 10.5	All Sizes	\$25.00	0.B21 - 14.6	\$22.50	\$25.00	involved turther distining the chiller efficiency levels within the filed chiller esteopries beyond just a		
Chillers	Air Cooled Reciprocal Chiller 1.142 - 10,5	All Sizes	\$25.00	0.753 - 15.9	\$29.30	\$25.00	minimum requirement. Incentives are now based on a combination of		
Chillers	Air Cooled Reciprocal Chiller	All Sizes	\$30.00	0.961 - 12.5	\$0.00	\$25.00	full load kW/lon or EER and a part load kW/lon or EER. The		
Chillers	Air Cooled Reciprocal Chiller 1.048 - 11.5	All Sizes	\$30.00	0.858 - 14.0	\$10.30	\$25,00	Incentives were increased to motivate customers to move to		
Chillers	Air Cooled Reciprocal Chiller 1.046 - 11.5	All Sizes	\$30.00	0.753 - 15.9	\$20.80	\$25.00	higher efficiency offerings which are typically more expensive.		
Chillers	Air Cooled Reciprocal Chiller 1.048 - 11.5	All Sizes	\$30.00	0.891 - 17.4	\$27.00	\$25.00			
Chillers	Air Cooled Scrott/Screw Chiller 1.23 - 9.8	All Sizes	\$8.00	0.89 - 13.5	\$24.13	\$25.00			
Chillens	Air Cooled Scroll/Screw Chiller 1.23 - 9.8	All Sizes	\$8.00	0.81 - 14.8	\$31.50	\$25.00			
Chillers	Air Cooled Scroll/Screw Chiller	Alt Sizes	\$25,00	0.925 - 13.0	\$12.00	\$25.00]		
Chillers	Air Cooled Scroll/Screw Chiller 1.142 - 10.5	Al Sizes	\$25.00	0.879 - 13.7	\$16.70	\$25.00			
Chillers	Air Cooled Scroll/Screw Chiller 1.142 - 10.5	AJI Stzes	\$25.00	0.674 - 17.8	\$37.20	\$25.00			
Chillers	Air Cooled Scroll/Screw Chiller 1.048 - 11.5	All Sizes	\$30.00	0.961 - 12.5	\$0.00	· \$25.00]		ļ
Chillers	Air Cooled Scroll/Screw Chiller 1.046 - 11.5	Ali Sizes	\$30.00	0.847 - 14.2	\$11.40	\$25.00			1
Chillers	Air Cooled Scroll/Screw Chiller 1.048 - 11.5	All Sizes	\$30.00	0.795 - 15.1	\$18.60	\$25.00]		
Chillers	Air Cooled Scroll/Screw Chiller 1.046 - 11.5	All Sizes	\$30.00	0.818 - 19.4	\$34.30	\$25.00			
Chillers	Water Cooled Screw Chiller 0.71 - 16.9	<150 ton	\$15.00	0.55 - 21,4	\$7.00	\$20.00]		
Chillers	Water Cooled Screw Chiller 0.71 - 18.9	<150 ton	\$15.00	0.53 - 22.8	\$10.00	\$20.00			
Chülers	Water Cooled Screw Chiller 0.71 - 16.9	<150 ton	\$15.00	0.50 - 24.0	\$13.00	\$20.00]	ļ	· - /
Chillers	Water Cooled Screw Chiller	<150 ton	\$15.00	0.46 - 26.1	\$17.00	\$20.00			
Chillen	Water Cooled Screw Chiller	c150 mg	\$15 00	0.41-27.8	\$20.00	\$70.00	1		1
CRIPERS	Toru - Iora		- #13.00	0.45-27.8	\$20,00	\$20.00	I	L	1
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Alechnology I	Full load kW/ton -EER 1853	A LANSING THE AN	Current Base	Part Load IPLV KW/ton -	Current Additional Incentive Ston	Original Incentive	Reson for Modification	Date of Modification
Chillers	Water Cooled Screw Chiller 0.63 - 19	<150 ton	\$20.00	0.50 - 24.0	\$6.00	\$20.00	Per consultant recommendation, Incentives increased when	July 2009 Measure revision was in
Chillers	Water Cooled Screw Chiller 0.63 - 19	<150 ton	\$20.00	0.47 - 25.3	\$9,00	\$26.00	efficiency lavels were broken out from the initial 4 chiller category	development prior to program launch.
Chillers	Water Cooled Screw Chiller 0.63 - 19	<150 ton	\$20.00	0.44 - 27.3	\$12.00	\$20.00	not change. The revisions	
Chillers	Water Cooled Screw Chiller	<150 lbn .	\$20.00	0.41 - 29,3	.\$15.00.	\$20.00	efficiency levels within the filed	
Chillers	0.63 - 19	<180 ton	\$20.00	0.38 - 31.8	\$18,00	\$20.00	minimum requirement. Incentives are now based on a combination of	
Chillers	0.63 - 19.0	<150 lon	\$15.00	0.51 - 23.5	\$9.00	\$20.00	full load kW/ton or EER and a part load kW/ton or EER. The	
Chilters	0.63 - 19.0 Water Cooled Centrifugal Chiller	<150 ion	. \$15.00	0.48 - 25.0	\$12.00	\$20.00	incentives were increased to motivate customers to move to higher efficiency offerings which	
Chillers	0.63 - 19.0 Water Cooled Centrifugat Chilter	<150 ton	\$15.00	0.45 - 26.7	\$15.00	\$20.00	are typically more expensive.	
Chillers	0.63 - 19.0 Water Cooled Centrifugal Chiller	<150 ton.	\$15.00	0.38 - 31.6	\$22.00	\$20.00	-	
Chillers	0.55 - 21.4 Water Cooled Centrifugal Chiller	<150 ton	\$20.00	0.46 - 26.1	\$7.00	\$20,00		
Chillers	0.56 - 21.4 Water Cooled Centrifugal Chiller	<150 ton	\$20.00	0.43 - 27.9	\$10.00	\$20.00		
Chillens	0.58 - 21.4 Water Cooled Centrifugal Chiller	<150 ton	\$20.00	0.40 - 30.0	\$13.00	\$20.00		
Chillers	Water Cooled Screw Chilter	150-300 toos	\$15.00	0.45 - 26.7	\$19,00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.65 - 18.5	150-300 tons	\$15.00	0.42 - 28.6	\$15.00	\$25.00		
Chillera	Water Cooled Screw Chiller 0.65 - 18.5	150-300 tons	\$15.00	0.39 - 30,8	\$18.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.57- 21.1	150-300 tons	\$20.00	0.45 - 26.7	\$8.00	\$25.00	-	
Chillen	Water Cooled Screw Chiller 0.57- 21.1	150-300 tons	\$20.00	0.43 - 27.9	\$8.00	\$25.00		
Chiller\$	Water Cooled Screw Chiller 0.57-21.1	1 5 0-300 tons	\$20.00	0.40 - 30.0	\$11.00	\$25.00]	
Chillers	Water Cooled Screw Chiller 0.57-21.1	150-300 tons	\$20.00	0.37 - 32.4	\$14.00	\$25.00]	
Chillers	Water Cooled Screw Chiller 0,57-21.1	150-300 tons	\$20.00	0.34 - 35.3	\$17.00	\$25.00]	
Chillers	Water Cooled Centrifugal Chiller 0.57-21.1	150-300 tons	\$15.00	0.43 - 27.9	\$11.00	\$25.00		
Chillers	Water Cooled Centrifugel Chiller 0.57-21.1	150-300 tons	\$15.00	0.40 - 30.0	\$14.00	\$25.00	·	-

Technology **	Pull load kly/ton - EER	Size	Current Base	Part Load IPLV kWAon -	Current Additional Incentive Stor	Original Incentive	Resson for Modification	Date of Modification
Chillers	Water Cooled Centrifugel Chiller 0.57-21.1	150-300 tona	\$15.00	0.34 - 35.3	\$20.00	\$25,00	Per consultant recommendation, incentives increased when	July 2009 Measure revision was in
Chillers	Water Cooled Centrifugal Chiller 0.51 - 23.5	150-300 tons	\$20.00	0.41 - 29.3	\$7.00	\$25.00	efficiency levels were broken out from the initial 4 chiller category	development prior to program launch.
Chillers	Water Cooled Centifugel Chiller 0.51 - 23.5	150-300 tons	\$20.00	0.39 - 30.6	\$9.00	\$25.00	not change. The revisions	
Chillers -	Water Cooled Centrifugal Chiller 0.51 - 23.5	150-300 tons	\$20.00	0.36 - 33,3	\$12.00	\$25.00	efficiency levels within the filed	
Chillers	Water Cooled Centrifugel Chiller 0.51 - 23.5	150-300 tons	\$20.00	0.30 - 40.0	\$18.00	\$25.00	minimum requirement. Incentives are now based on a combination of	
Chilers	Water Cooled Screw Chiller 0.58 - 20.7	>300 tons	\$15.00	0.4 - 30.0	\$11.00	\$25.00	full load kW/ton or EER and a part load kW/ton or EER. The	
Chillens	Water Cooled Screw Chiller 0.58 - 20.7	>300 tons	\$15.00	0.37 - 32.4	\$14.00	\$25.00	Incentives were increased to motivate customers to move to	
Chillers	Water Cooled Screw Chiller 0.58 - 20.7	>300 tons	\$15.00	0.35 - 34.3	\$16,00	\$25.00	higher efficiency offerings which are typically more expensive.	
Chillers	Water Cooled Screw Chller 0.51 - 23.5	>300 tans	\$20.00	0.4 - 30.0	\$6.00 °	\$25.00		
Chillers	Water Cooled Screw Chiller 0.51 - 23.5	>300 tons	\$20.00	0.38 - 31.8	\$8.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.51 - 23.5	>300 tons	\$20.00	0.36 - 33.3	\$10.00	\$25.00		
Chillers	Water Cooled Sorew Chiller 0.51 - 23.5	>300 tons	\$20.00	0.33 - 38.4	\$13.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.51 - 23.5	>300 tons	\$20.00	0.31 - 38,7	\$15.00	\$25.00	-	
Chillers	Water Cooled Centrifugal Chilter 0.52 - 23.1	>300 tons	\$ 15.00	0.37 - 32.4	\$12.00	\$25.00		
Chillers	Water Cooled Centrifugal Chiller 0.52 - 23.1	>300 tons	\$15.00	0.31 - 38.7	\$18.00	\$25.00		
Chillers	Water Cooled Centrifugal Chiller 0.48 - 26.1	>300 tons	\$20.00	0.37 - 32.4	. \$7.00	\$25.00		
Chillers	Water Cooled Centrifugel Chiller 0.48 - 26.1	>300 tons	\$20.00	0.35 - 34,3	\$9.00	\$25.00	1	
Chillers	Water Cooled Centrifugal Chiller 0.46 - 26.1	>300 tona	\$20.00	0.33 - 36.4	\$11.00	\$25.00	1	
Chillers	Water Cooled Centrifugel Chiller 0.48 - 26.1	>300 tons	\$20.00	0.28 - 42.9	\$18.00	\$25.00]	

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Contact He That I want to be	The standard and the standard and the standard and the	Current Incentive per	Original incentive per	. A GROOM BROOM		- Alexandrica Hardeline
Technology	Program Measure Name	A State unit is the	St. J. Unit Like	Unit of Measure	Reason for Modification	Date of Modification
Liphting	Occupancy Sensors under 600 Watts	\$20.00	\$40.00	per sensor	Decreased to correct an error in the incentive amount originally field. Incentive amounts were reversed between the over and under 500 Watts sensors.	June 2009
Motors/Pumps/VFDs	Veriable Frequency Drive for Chilled Water Pumps 1.5, 2, 3, 5, 7.5, 10, 15, 20, 25, 30, 40, 50 Horse Power	\$100.00	\$111.00	per hp	Per consultant recommendation, the incentive was decreased as a lower incentive was expected to continue to drive perticipation and increase cost effectiveness.	June - July 2009 Incentive revision was in development prior to program taunch.
Motors/Pumps/VFDs	High Efficiency Pump 5 Horse Power	\$170.00	\$171.00	per pump	Incentive was decreased to a round number per consultant recommendation to make it easier to implement and more consistent across tentiories.	Juns - July 2009 Incentive revision was In development prior to program taunch.
Motors/Pumps/VFDs	High Efficiency Pump 10 Horse Power	\$165.00	\$166.00	per pump	Incentive was decreased to a round number per consultant recommendation to make it easier to implement and more consistent across territories.	June - July 2009 Incentive revision was in development prior to program launch.
Motors/Pumps/VFDs	High Efficiency Pump 15 Horse Power	\$290.00	\$293.00	per pump	Incentive was decreased to a round number per consultant recommendation to make it easier to implement and more consistent across territories.	Juna - July 2009 Incentive revision was In development prior to program launch.
Foodservice	ENERGY STAR @ Solid Door Reach-In Freezer (<15 cu ft)	\$50.00	\$70.00		Incentive structure changed in response to a besetine efficiency change with Energy Star. As a result, a graduated incentive structure was implemented per consultant recommendation to incentives the new Energy Star models which led to an incentive decrease. Revision timing coincides with the timing of the 2010 annual portfolio review.	July 2010

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Energies to a basile difference Incentive structure changed in response to a basile difference exclusion are biological to a basile difference Incentive structure changed in response to a basile exclusion are biological exclusion are biological and the biological distance and the biolis distance distance and the biological distance bio	Technology	Program Measure Name AL	Current Incentive per	Original Incentive per	A Unit of Measure	Reson for Modification	Date of Modification
ENERGY STAR @ Bolid Door Reach-In Foodsandia S50.00 \$70.00 per unit S50.00 \$70.00 ENERGY STAR @ Bolid Door Reach-In Foodsandia S50.00 \$70.00 per unit S30.00 Adv 2016 Unitary and Roofbe AC <66,000 BTUH (1							
Poolsenvice Refrigenuor (<15 ou ft) \$50.00 \$70.00 per unit 2010 annual portible review. July 2019 Holds with the second back of the secon		ENERGY STAR & Bolid Door Resch-in				Incentive structure changed in response to a baseline efficiency change with Energy Star. As a result, a graduated incentive structure was implemented per consultant recommendation to incentivize the new Energy Star- models witch ted to an knowthe decrease. Revision timing coincides with the timing of the	
HVAC Unitary and Rooftop AC <85,000 BTUH (1 \$25.00 \$35.00 per ton Pre Incentive was decreased per consultant recommendation as it was believed the lower locative review number of the program law of	Foodsarvice	Refrigerator (<15 ou ft)	\$50.00	\$70.00	per unit	2010 annual portfolio review.	July 2010
PVAC Press/ \$23.00 \$33.00 perior Constitute point and point review. addition HVAC Unitary and Rooftop AC >760,000 BTUH \$30.00 \$40.00 per ion 2009 annual portfolio review. July 2009 incentive revision fining point revision fining portfolio review. HVAC Unitary and Rooftop AC >760,000 BTUH \$30.00 \$40.00 per ion 2009 annual portfolio review. July 2009 incentive revision fining portfolio review. HVAC Unitary and Rooftop AC >760,000 BTUH \$30.00 \$40.00 per ion 2009 annual portfolio review. HVAC Unitary and Rooftop AC >240,000 BTUH \$30.00 \$35.00 per ion 2009 annual portfolio review.		Unitary and Reoftop AC <85,000 BTUH (1				The incentive was decreased per consultant recommendation as it was believed the lower incentive amount could drive perticipation. Revision timing coincides with the timing of the 2009 ensues of othe surface.	July 2009 Incentive revision had been in development prior to program
HVAC Unitary and Rooftop AC >>760,000 BTUH \$30.00 \$40.00 per ton The Incentive was decreased processitiant recommendation as it was believed the lower incentive amount could drive participation. Revision timing of the source with the time of the source w	HVAC	(*/#366) 	\$25.00	\$35.00	per ton	2009 Ennuel portozo review.	latancn.
HVAC Unitary and Rooftop AC >240,000 BTUH \$25,00 \$35,00 per ton 2009 annual portfolio review. July 2009	HVAC	- Unitary and Rooftop AC >760,000 BTUH	\$30.00	\$40.00	perton	The incentive was decreased per consultant recommendation as it was believed the lower incentive amount could drive participation. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Incentive revision hed been in development prior to program laurch.
	HVAC	Unitary and Rooftop AC >240,000 BTUH	\$25.00	\$35.00	per ton	The Incentive was decreased per consultant recommendation as it was believed the lower incentive amount could drive participation. Revision timing coincides with the timing of the 2009 annual portfolio review.	July 2009 Incentive revision had been in development prior to program launch.
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			Current Base	Part Load IPLV kW/ton -	Current Additional Incentive	Original incentive	Presson for Man	Date of
Chiller	LAIS Cooled Revision Chiller 1 33 - C	HALL AND AN CHART	THE DO THE PROPERTY OF THE PRO	CHORES SHAREER STAR TENS	50 00	526.00	Per consultant	July 2009
Chillers	Air Cooled Reciprocel Chiller 1 23 - 9.9	All Sizes	\$0.00	1,130	\$11 8A	\$25.00	recommendation.	Measure revision
Chillers	Air Cooled Scroll/Screw Chiller 1.23 - 9.9		\$0.00 \$0.00	1 130 -10 60	\$0.00	\$25.00	incentives decreased	was in
Chillers	Air Cooled Scroll/Screw Chiller 1.23 - 9.8	All Sizes	\$8.00	1.010 = 11.90	\$11.68	\$25.00	when efficiency levels	development prior
Chillen	Water Cooled Screw Chiller 0.79 - 15.2	<150 top	\$5.00	0.62 19.4	\$0.00	\$20.00	were broken out from	to program
Chillers	Water Cooled Screw Chiller 0.79 - 15.2	<150 ton	\$5.00	6.59 - 20.3	\$3.00	\$20.00	the initial 4 chiller	Launon.
Chillers	Water Cooled Screw Chiller 0.79 - 15-2	<150 ton	\$5.00	0.55 - 21.8	\$7.00	\$20.00	Chiller categories did	
Chillers	Water Cooled Screw Chiller 0.79 - 15.2	<160 ton	\$5.00	0.51 - 23.5	\$11.00	\$20.00	not change. The	
Chillers	Water Cooled Screw Chiller 0.71 - 16.9	<150 ton	\$16,00	0.63 - 19.0	\$0.00	\$20.00	revisions involved	
Chillers	Water Cooled Centrifugal Chiller 0.70 - 17.1	<150 ton	\$5.00	0.57 - 21.1	\$0.00	\$20.00	further defining the	
Chillens	Water Cooled Centrifugal Chiller 0.70 - 17.1	<150 ton	\$5.00	0.53 - 22.6	\$4.00	\$20.00	chiller efficiency levels	
Chillers	Weter Cooled Centrifugal Chiller 0.70 - 17.1	<150 ton	\$5.00	0.5 - 24,0	\$7.00	\$20.00	categories beyond just a	
Chillers	Water Cooled Centrifugal Chiller 0.63 - 19,0	<150 ton	\$15.00	0.6 - 20.0	\$0.00	\$20.00	minimum requirement	
Chillers	Water Cooled Screw Chiller 0.72 - 16.7	150-300 tons	\$5.00	0.57 - 21.1	\$0.00	\$25.00	and associating	1
Chillers	Water Cooled Screw Chiller 0.72 - 16.7	150-300 lons	\$5.00	0,54 - 22,2	\$3.00	\$25.00	essigned incentives to	1
Chillers	Water Cooled Screw Chiller 0.72 - 16.7	150-300 tona	\$5.00	0.50 - 24.0	\$7.00	\$25.00	motivate customers to	
Chillers	Water Cooled Screw Chiller 0.72 - 16.7	150-300 tons	\$5.00	0.47 - 25.5	\$10.00	\$25.00	purchase nigner	
Chillens .	water Cooled Screw Chiller 0.72 - 16.7	150-300 tons	\$5.00	0.43 - 27.9	\$14.00	\$25.00	Incentives are now	
Chillers	Water Cooled Screw Chiller 0.65 - 18.5	150-300 tons	\$15.00	0.51 23.5	\$0.00	\$25.00	based on a combination	· .
Chillers	Water Cooled Screw Chiller 0.65 - 18.5	150-300 tons	\$15.00	0.48 - 25.0	\$6.00	\$25.00	of full load kW/ton or	
Chillers	Water Cooled Screw Chiller 0.65 - 18.5	150-300 torns	\$15.00	0.45 - 26.7	\$9.00	\$25.00	EER and a part load	1
Chillers	Water Cooled Screw Chiller 0.67-21.1	150-300 tons	\$20.00	0.51 - 23.5	\$0.00	\$25.00		
Chillers	Water Cooled Centifugal Chiller 0.63 ~ 19	150-300 tons	\$5.00	0.51 - 23.5	\$0.00	\$25.00		
Chillers	Water Cooled Centrifugal Chilter 0.63 ~ 19	150-300 tons	\$5.00	0.48 - 25.0	\$3.00	\$25.00		
Chillers	Water Cooled Centrifugal Chiller 0.63 ~ 19	150-300 tons	\$6.00	0,45 - 26.7	\$6.00	\$25.00		
Chillers	Water Cooled Centrifugal Chiller 0.63 ~ 19	150-300 tons	\$5.00	0.38 - 31.0	\$13.00	\$25.00		
Chillers	Water Cooled Centifugal Chiller 0.57-21.1	150-300 tons	\$15.00	0.54 - 22.2	\$0.00	\$25.00		
Chillers	Water Cooled Centrifugal Chiller 0.57- 21.1	150-300 tons	\$15.00	0.48 - 28.1	\$8.00	\$25.00		
Chillers	Water Cooled Centrifugal Chiller 0.51 - 23.5	150-300 tons	\$20.00	0.48 - 25.0	\$0.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.64 - 18.75	>300 tons	\$5.00	0.51 - 23.5	\$0.00	\$25.00		1
Chillers	Water Cooled Scrow Chiller 0.64 - 18.75	>300 tons	\$5.00	0.48 - 25.0	\$3.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.64 - 18.75	>300 tons	\$5.00	0.45 - 28.7	\$6.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.64 - 18.75	>300 tons	\$5.00	0.42 - 28.6	\$9.00	\$25.00]	1
Chillers	Water Cooled Screw Chiller 0.64 - 18.75	>300 tons	\$5.00	0.38 - 31.6	\$13.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.58 - 20.7	>300 tons	\$15.00	0.51 - 23.5	\$0.00	\$25.00]	
Chillers	Water Coolad Screw Chiller 0.58 - 20.7	>300 tons	\$15.00	0.45 - 26.7	\$6.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.58 - 20.7	>300 tons	\$15.00	0.43 - 27.9	\$8.00	\$25.00		
Chillers	Water Cooled Screw Chiller 0.51 - 23.5	>300 tons	\$20.00	0.48 - 26,1	\$0.00	\$25.00		l

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Chilters	Water Cooled Centrifugal Chiller 0.58 - 20.7	>300 tone	\$5.00	0.47 - 25.5	\$0.00	\$25.00	Per consultant	July 2009
Chilera	Water Cooled Centrifugel Chiller 0.58 - 20.7	>300 tons	\$5.00	0.44 - 27.3	\$3.00	\$25.00	incontives docreased	wesin
Chillers	Water Cooled Centrifugal Chiller 0.58 - 20.7	⊁300 tons	\$5.00	0.41 - 28.3	\$6.00	\$25.00	when efficiency levels	development prior
Chillers	Water Cooled Centrifugal Chiller 0.58 - 20.7	>300 tons	\$5.00	0.35 - 34.3	\$12.00	\$25.00	were broken out from	to program launch
Chillers	Water Cooled Centrifugal Chiller 0.52 - 23.1	>300 tons	\$15.00	0.49 - 24.5	\$0.00	\$25.00	catagory offerings.	
Chillers	Water Cooled Centrifugal Chiller 0.52 - 23.1	>300 tons	\$15.00	0.42 - 28.6	\$7.00	\$25.00	Chiller categories did	
Chillers	Water Cooled Centrifugal Chiller 0.45 - 25.1	>300 tons	\$20.00	0.44 - 27.3	\$0,00	\$25.00	revisions involved	
•				•••••••			further defining the	i i
							within the filed chiller	
							categories beyond just a	
•							minimum requirement	
				•			assigned incentives to	
							motivate customent to	1
							purchase higher	
				·			efficiency models.	
							based on a combination)
							of full load kW/ton or	
							EER and a pert load	
							KW/IIION OF EER.	1

An	Contract of the second se	The second	Proposed Efficiency Level	NC UCT_Cost Based Norm	NC TRC_Cost Based Norm	NC RIM (Net Fuel)_Cost Based Norm	Participant Test Results
•			Beverage Reach-In Cooler with motion control to control machine light usage and optimize				
ood Service	Beverage Reach-in Controller	Beverage Reach-In Cooler without motion control	refrigeration	2.84	1.58	1.05	2.44
ood Service	Door Gaskets - Cooler and Freezer	Old Leaky Door Gaskets	New Door Gaakets	12.08	8.26	1.58	10.95
ood Service	ECM Cooler and Freezer Motors - ECM replacing PSC	Cooler or Freezer Fan Motor with Perm. Split. Cap. Motor	Cooler or Freezer Fan utilizing an Electronically Commutated Motor (ECM)	5.64	4.19	1.42	5.83
ood Service	replacing SP	Cooler of Freezer Fan Motor with Shaded Folia Motor	Cooler or Freezer Fan utilizing an ECM Motor	17.04	12.66	1.71	16.35
ood Service	ECM Display Case Motors	Capacitor Motor	Display Case Fan utilizing an ECM Motor	3.45	2.57	1.23	3.81
ood Service	Pre Rinse Sprayers	Standard Sorayer >2.2 gpm	Efficient Low Flow Sprayer <= 1.6 gpm	7.69	6.89	1.44	11.46
ood Service	Snack Machine Controller	Sneck machine without mation control	Snack machine with motion control to control machine light usage	2.58	1.33	1.08	2.03
IVAC	CEE Tier 1 Room A/C greater than 14,000 Btu/hr	Standard Room A/C unit, 8.5-9.7 EER	Consortium for Energy Efficiency (CEE) Tier 1 Room A/C unit, 9.8-111.2 Energy Efficiency Ratio (EER)	3.08	0.96	2.08	0.58
	CEE Tier 1 Room A/C less than 14,000 Btw/hr	Standard Room A/C unit, 9.7-9.8 EER	CEE Tier 1 Room A/C unit, 11.2-11.3 EER	4.02	1.19	2.47	0.65
IVAC	CEE Tier 2 Room A/C greater than 14,000 Btu/hr	Standard Room A/C unit, 8.5-9.7 EER	CEE Tier 2 Room A/C unit, 10.2-11.6 EER	3.58	0.98	2.29	0.55
IVAC	CEE Tier 2 Room A/C less than 14,000 Btu/hr	Standard Room A/C unit, 9.7-9.8 EER	CEE Tier 2 Room A/C unit, 11.6-11.8 EER	4.08	1.11	2.49	0.6
IVAC	Guest Room Energy Management, Electric Heat Pump	Guest Room without motion control on HVAC	Guest Room with motion sensor to reset temperature on HVAC system	2.03	1.21	0.98	1.84
IVAC	Guest Room Energy Management, Gas Heating (Electric Cooling Only)	Guest Room without motion control on HVAC	temperature on HVAC system	4.75	1.25	2.72	0.65
IVAC	High -Efficiency Commercial Electric Water Heater	Electric water heater 4.5 kW, EF=0.864	High efficient electric water heater (4.5 kw, EF=0.93)	5.91	4.18	1.44	5.67
ighting	Ceramic Metal Halide 20-100W	Incandascent display lighting	Ceramic metal halide tamp/fbdure 20-100W	5.48	1.81	1.36	2.03
Jghting	Ceramic Metal Hallde with integral Ballast	Incandescent display lighting (flood lights) ≥ 70W	Ceramic metal halide Flood Light with Integral Ballast ≤ 25W	1.40	0.38	0.77	0.56
Jghting	CFL Reflector Flood	Incandescent lamps with reflectors	Compact fluorescent lamps with reflectors	6.34	4.34	1.35	6.09
ighting	CFL Screw High Wattage	Incandescent lamp	less than 115W	6.53	3.30	1.36	4.17
ighting	CFL Screw In, Specialty	Incandescent lamp	Compact fluorescent lamp less than 30W	7.36	5.04	1.39	6.98
ighting	Delamping T12 2ft to T-8	T12 fluorescent	T8 fluorescent delamped (reduced lamps in comparison with original fixture)	7.45	1.45	1.46	1.46
ighting	Delamping T12 3ft to T-8	T12 fluorescent	comparison with original foture)	8.39	2.11	. 1.50	2.17
ighting	Delamping T12 4ft to T-8	T12 fluorescent	18 fluorescent delamped (reduced lamps in comparison with original fodure)	8.72	2.46	i <u>1.5</u> 1	2.56
	Delemping T12 88 to T-9	T12 fluorescent	I I S RUCTOSCONT Catemped (reduced lamps in comparison with original fature)	8.37	3.77	1.50	4.27

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12 Station and Station	AND CONTRACTOR OF AN AND CONTRACTOR			The states		A Station	3.4
						NC RIM (Net	Participant
		A STATE AND A STATE AND A STATE AND		NC UCT_Cost	NC TRC_Cost	Fuel) Cost	Test
Equipment	Proposed Technologies	Base Efficiency Level	Proposed Efficiency Level	Based Norm	Based Norm	Based Norm	Results 241
	Exterior HID replacement above 175W to		LED or Induction exterior lighting, 40% wattage		[!		
Lighting	250W HID recont	HID exterior lighting	reduction from original fixture	1.55	0.33	0.93	0.48
	Exterior HID replacement above 250W to		LED or induction exterior lighting, 40% wattage	1		1 0.05	
Lighting			reduction from onginal focure	1.65	0.55	0.96	0.5
		LID autorian Briting	LED OF Induction extension synthys, 40% wattage	1.50	0.40	1 004	. 0.72
Lignting	Treutoni		I ED or locuetion exterior lighting 40% wetters	1.39	0.40	0.54	
Lighting	Exterior HID replacement to 175W HID retroit	HID exterior fighting	reduction from addingt firture	1 24		أنعم	اديم ا
Lighting	Gerone HID replacement shrift 175W to		I ED or induction exterior Bohting (1)% wattace	1.21	0.47		·
lighting	250W HID retrofit	HID exterior lighting	reduction from original fibring	1.61	0.86	1	1 1 36
	Gerece H/D contacement above 250W to		ILED or induction exterior liphtion 40% wattere	1.01	0.00		1
(il lehting	400W HID retrofit	HID exterior lighting	reduction from original fixture	1.66	0.92	0.97	1.45
	Garage HID replacement above 400W HID		LED or induction exterior lighting, 40% waltage		<u>~</u>		+
Lighting	retrofit	HID exterior lighting	reduction from original fixture	1.87	1.24	0.99	2.02
		•	LED or Induction exterior lighting, 40% wattage	1 ······		[1
Ughting	Garage HID replacement to 175W HID retrofit	HID exterior lighting	reduction from original foture	1.64	0.76	0.92	1.15
Lighting	LED Downlight	Incandescent downlight	LED downlight (display lighting)	7.73	2.08	1.49	2.13
Lighting	LED Lamps	Incandescent lamp ≥ 60W	LED lamp s12W	6.46	1.59	1.43	1.65
			tileb endermann levrumitiere TD dueseest				
Lighting			High performance low wait tamp 18 nuoreacent	2.90	1.54	1 <u>11</u>	1./5
l ighting	LW HPT8 4R 2 lamp, replace T12	T12 fluorescent	High performance low watt tamp T8 fluorescent	2 97	1 57	1 117	2 12
E.Briend			righ periodicates for the analy to the second				
Lighting	LW HPT8 4ft 3 lamp, replace T12	T12 fluorescent	High performance low watt lamp T8 fluorescent	3.97	2.01	. 1.25	5 2.54
[
Lighting	LW HPT8 4it 4 lamp, replace T12	T12 fluorescent	High performance low watt lamp TB fluorescent	3.58	2.14	. 1.21	1 2.89
	· · ·		Screw Air compressor with Variable Speed Drive			1	
Motors/Pumps/VFDs	VSD Air Compressors	Screw Air Compressor with Modulation Control	control to regulate air flow	4.62	3,75	1.38	3 5.3

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CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's List of Changes in Docket No. E-7, Sub 831, has been served by electronic mail (e-mail), hand delivery or by depositing a copy in the United States Mail, first class postage prepaid, properly addressed to parties of record.

This the 21st day of December, 2011.

Roberto v. Hayla

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