

Filing Receipt

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SOAH DOCKET NO. 473-21-2424 PUC DOCKET NO. 52067

APPLICATION OF ENTERGY TEXAS, § BEFORE THE STATE INC. TO ADJUST ITS ENERGY § OFFICE OF ADMINISTRATIVE EFFICIENCY COST RECOVERY § HEARINGS FACTOR AND REQUEST TO § ESTABLISH REVISED COST CAPS §

CITIES' RESPONSE TO ETI'S FIRST RFI TO CITIES

The Cities of Anahuac, Beaumont, Bridge City, Cleveland, Dayton, Groves, Houston, Huntsville, Liberty, Montgomery, Navasota, Nederland, Oak Ridge North, Orange, Pine Forest, Pinehurst, Port Arthur, Port Neches, Roman Forest, Rose City, Shenandoah, Silsbee, Sour Lake, Splendora, Vidor, West Orange, and Willis ("Cities") hereby file their responses to Entergy Texas, Inc.'s ("ETI") First Request for Information ("RFI") to Cities. Cities' responses to the RFIs are attached hereto and numbered as they were numbered in ETI's Request. Cities' response is timely filed pursuant to P.U.C. Proc. R. 22.144(c) and SOAH Order No. 2. All parties to the above captioned proceeding may treat these responses as if they were filed under oath.

Respectfully submitted, LAWTON LAW FIRM, P.C.

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ATTORNEY FOR CITIES

CERTIFICATE OF SERVICE

I hereby certify that a copy of this document was served on all parties of record in this proceeding on this the 3^{rd} day of August, 2021, in accordance with 16 TAC § 22.74.

Molly Mayhall Vandervoort

MCM Vandervoort

Responding Party: Cities Docket No.: 52067
Requesting Party: ETI Question No.: ETI 1-1

Prepared by: Counsel

Sponsoring Witness: Karl Nalepa

REQUEST:

1-1 Please provide a copy of Exhibit KJN-1 to the Direct Testimony of Karl J. Nalepa in native Excel format with all formulas and cells intact.

RESPONSE:

Please see attached.

Insert or Verify Data in Blue Cells	Fixed	Inputs per PUC Rule
Avoided Cost per kW	\$	84.00
Avoided Cost per kWh	\$	0.03925
Utility Specific Discount Rate (WACC)		7.725280%
Inflation Rate		2.0%
Maximum % Net Benefits for Bonus		10.0%

Avoided Cost	2013	2014	2015	2016	2017	2018	2019	2020
Reference	\$ 80.00							
	\$ 0.10400	\$ 0.04619	\$ 0.05321	\$ 0.05088	\$ 0.03989	\$ 0.03757	\$ 0.05084	\$ 0.11366

PUC Goals	kW	kWh
2018 Goals	15,500	27,156,000

Cost-effectiveness Input	
Bonus Collected in 2020 = Bonus Earned in 2018	\$ 1,673,207

Please Note: The bonus included in the cost-effectiveness analysis is the bonus collected for the program year, not the bonus earned. For example, for PY2020 cost-effectiveness, the bonus collected (= 2018 bonus earned) should be included in cell B14 of this tab.

As a result, this bonus will not match the bonus calculated in the Step 4 Bonus Calculator

Tab which is the *bonus earned* for PY2020.

Due to the rule change, a bonus must also be included as a program cost for the purposes of calculating the new bonus. We are using the same bonus that is used for cost effectiveness.

Instructions	Last Updated:5/12/2020	Select from drop-down		Paid :	Savings			Total Incentive		Automatic Or Manual		Total Program Costs fo	or Program Year 2019			kveness Test rt 1		tiveness Test ort 2		ctiveness Test Part 3	Cost E	Effectiveness Test Part 4		
	Program (list custom measure here if necessary)	Measure (Select from Drop Down Menu)	irstallation	kw Actual Savings	kerh Actual Sanings	CASH Proentines Actual	Incentive Allocation Based on key	NON CASH Incentine	Total incentive	est irrated Useful Life	Total Admin Spent (Factading Romas, including cost paid for eccet)	Total Frogram Cost Spent (Excluding Bonus; including cost paid for EECRE)	Total Admin For Bonus (Including Bonus & EECRF)	Total Program Cost For Sonus (Including Bonus & EECEF)	Total Admin for Cost Eff. (Including Bonus; excluding cost paid for ECRF)	Total Program Cost for Cost Eff. (including Bonus; excluding cost paid for EECRE)	PV (Atolded Capacity Cost	PV (Avoided) Energy Cost	PVA+d Capacity Cost * kW	FVAIO ided trengy Cost * kitch	Total Avoided Cost [PURM + PURMh]	Fact Benefits (Avoided Cost - Program Cost)	Ben-Cost Ratio	e Estimores Danus (10
/HITE CELLS: Enter Data	Commercial Solutions		867	6,196.28	31,760,192	\$ 1,266,294.46	100%	5 1,302,886.97	\$2,569,181.43	NA.	\$ 308,760	5 2,877,942	\$ 1,021,030	5 3,593,211	5 1,019,960	\$ 3,589,142			5 4,387,736	\$ 9,875,014	5 14,262,750	\$ 10,673,608	3.97	5 1,06
FCELUS: Sub-Tota bior filends ECELUS: Optional Data Entry		Commex lat Solutions Comm 6C M Eupporator fan Motor	10	36.60	202102	511.927.93	0.4%	\$5,570,87	517-098-90	15.0	4 2400	5 19.607	5 6975	3 24,474	5 6947	3 34,446		2 5 030	4 20.00	5 90.758	5 112.931	5 81,485	4.62	s
FLIS-Optional Data Entry		Comm By MC v STAIL Combination Overs	10	5.38	25,472			50,570a7 51,17209		12.0	3 2,000							9 5 039	3 22,172	5 8563			3,52	+2
Not of 16 programs		Comm ENERGY STAR Commercial Dishwashers	3	1.36			0.0%	5285.97		31.0	5 83				5 270			6 5 0.316					3.94	3
1		COMM ENERGY STAR ROOK	7	6293	199,810	\$19,728.45		\$13,23203	\$32,960.48		\$ 3,963	5 36922	\$ 13,137			5 46,046	5 83	7 5 0.393					2.84	5
Aeasure Search:		Comm HVAC Chillers: Screw / Scroll / Reciprocating Chillers		12471				\$26,222.66	\$70,508.18		3 8,450		5 28,024					4 5 0.465	5 124,022	5 200,000			4.32	4 5
		Comm HVAC VFD (AHU)	3 50	595 237.40	166920 1.290844	\$4,825.40 \$50,689.76	0.1%	\$1,250.68	\$6,076.08		5 730		5 2,422	5 8,468	5 2,412	5 8,488		7 5 0.393					3.25	4 5
un list for calls in column C		Comm Jamps and Pictures: Integral LED Jamps Comm Jamps and Pictures: LED Fictures	193	3.171.26			51.2%	\$49,917.44 \$466.814.07	\$100,907.00		S 12,177 S 161,199		5 40,220 5 534,632		5 40,090 5 532,505		5 58	1 5 0.273 17 5 0.392	5 137,849 5 2,653,884				3.39	- 5
see comment in C1 for		Comm Lighting Controls: Occupance Sensor	13	20056	736112			\$42,171.57	\$86,600.14		3 10.407			5 121,217				0 5 0294	3 129 301	5 715 604			283	1
instructions.*	5	CommSplit System/Single Packaged Air Conditioners & Heat Fumps	40	268.60	636,400	\$79,878.75	4.3%	\$56,478.91	\$136,897.66	35.0	5 16,397	5 152745				5 190,691		7 5 0393		5 246,853	\$ 473,626	5 203,145	2.49	3
		M&V Project - 10 EUL	3	35 8 6	738,479			\$7,540.25			5 3,759							0 5 0.294					5,49	5
measure max = 4.2		MSV variable Refrigerant FlowSystems	5	13.32	59,690	\$4,523.80	0.2%	52,80078	37,5M.58	15.0	\$ 890	5 8,205	5 2,919	5 10,2M	5 2,905	5 10,252	5 53	7 5 0.393	. 5 21,147	\$ 25,341	5 34,488	5 24,25	3.37	
				_						1							 	_	1				_	+-
		##dst mam	1				t										_	+	1				1	+
	1	Commitamps and Rictures: Integral LEO Lamps	234	627.61	2,723,239		303%	\$1.70,947.25		9.0	5 30,225							1 5 0.27	5 364,690	\$ 739,417		\$ 752,764	3.14	- 5
		Comm Lamps and Pixtures: LED Pixtures	107 89	25172	1,059,525	\$50,065.50 \$52,060.00	3.7%	\$52,928.21		35.0	3 12,381							7 5 0.393					4.34	
		Communings and Fixtures: Integral LED Lamps Communings and Fixtures: LED Fixtures	85	231.71 288.39	1,409,258	584,125.00	4.7%	\$48,721.38 \$60,634.05	\$100,811.58 \$144,759.05	15.0	5 12,115 5 17,397				5 40,022 5 57,469		3 3	1 5 0.273 17 5 0.393	5 231,594	5 275,247		5 267,058 5 590,158	2.90	- :
		Community and record to record	444	20.50	2,400,000	30000	43.74	200,00400	244512022	33.0	21,307	3 102,010	37,002	202,007	37,400		*		20,32	2 202,000	2 792,000	2 390,230		-
		Continuous Energy Improvement																						1
		M6V Comm Behavioral	4	647.06	5,232,942	\$0.00	20.4%	\$1.75,218.79	\$135,918.79	1.0	5 16,290	5 351,469	5 53,896	5 189,215	5 53,682	5 188,900	5 8	0 5 0000	\$ 51,147	5 194,477	5 245,634	\$ 56,734	1.30	
				6,223.00													_	_						-
mensae more 103	Load Management		*	6,223,00	6,223	\$ 151,872.50	0%		\$151,872.50	10 10	\$ 41,308 5 41.308							0 5 007	\$ 494,950					
		MBV Comm Load Curtailment		6,22300	9,223	3353,87250	-		5 150,87250	3.0	5 41.508	5 293380	5 89,320	5 241,292	5 89,079	5 340852	3 8	0 5 0039	\$ 494,950	5 230	S 485.182	5 254.230	2.09	- 5
mensur may - A2	Residential SOP		6.314	3,814,12	5,274,166	\$ 1,556,895,60	100%		\$1,556,895,60	NA.	\$ 200,653	\$ 1,757,549	S 637.466	5 2,194,362	5 635,000	5 2,191,895	1	_	5 3,173,196	\$ 2.247.433	5 5,420,629	5 3,228,733	2.47	5
		nesidential standard Offer Program			32113411					1					-		_	_	0 0000	,,	0 3,110,010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		+
		Res Air Infiltration	1,623	1,819.83	1,808,302		42.7%		54F2,522.12	31.0	\$ 86,675							6 5 0.310		\$ 570,994			2.90	1 1
		Res Ceiling Insulation	800	2,20624	1,793,279		29.0%		\$457,572.40	25.0	58,946			5 661,612	5 186,545		5 1,11	4 5 0521	5 1,232,739	\$ 933,830	5 2,200,500		3,36	1
		Res Duct Efficience improvement	1,639	511.20 6757	965,334		2.66	_	\$220,932.25	38.0	S 38,474 S 15,159						5 97	7 S 0.438 10 S 0.248	5 478,762	5 422,433 5 145,788		5 590,153 5 29,239	2.90	- 5
		Res ENERGY STAR Grant-Directional LED Lamps (Standard Baseline) Res Lose Flows Showerheads	627	91.01	265.653		2.6%		\$25,670.00		5 3081				5 9,64		3 63	0 5 0.294	\$ 49,034				3.38	- 1
		Res Wall insulation	2	5.18	9,106	\$2,308.94	0.1%		\$2,808.90		5 293	5 2,607						4 5 052		5 4,741		5 7,266	3.24	3
	1										200				10000									
		CoolSaver Program	116	78.80	191.774	\$19,890,00	2.1%		\$19,893,00	50			5 R044		5 8,212			8 5 0167		11 207	5 61 477	5 31475	2.20	4.
		Res Air Conditioner or Heat Pump Tune-Up	110	7880	199,274	319,890.00	2.179		313/890102	5.0	5 2560	5 22,453	3 8,344	5 26,034	5 8,312	5 28,002) »	8 5 0260	5 29,180	3 33,87	5 60,477	5 33,4/5	220	- >
		Multifamily HVAC Program																						1
		Res Central Heat Pump	34	109.38	161,794	\$42,579.90	2.9%		\$42,579.90		5 5,488	3 48,098	\$ 17,434	\$ 60,014	\$ 17,367	5 59,947	5 83	7 5 0.393				5 94,854	2.58	5
		Ris ENERGY STAR Connected Thermostats			2,543	50.00	0.0%		\$0.00	21.0	3 .	5 .	3 .	3 .	3 .	3 .	5 67	6 5 0.336	1 2 .	5 803	5 203	5 505	4DN/0!	- 5
measur max = 40	Residential Solutions		2,059	2006.26	4.651.931	\$ 572,915.00	1002/	5 174,159.69	6787 078 60	101	\$ 119,892	5 866,967	\$ 335,364	5 1,082,438	5 334,180	\$ 1,081,255	_	_	5 2,058,453	0 2 177 230	5 4,235,691	6 9 104 496	3.92	-
THE COURT INCH A NO.		High Performance Homes Program	200	2,000.20	4,431,421	3 3 63 1344	30078	3 27,137.07	31 41 711 4.03	1375	3 110,2012	3 800,700	3 332,004	3 1,002,430	3 334,200	3 Det LESS	_	_	3 631367433	3 2,01,230	3 4,63,5071	3 3,134,7436	332	+
		MAN New Homes	1,570	1,56072	3,340,966	\$349,850.00	77.8%	\$1.35,483.33	\$905,533.55	23.0	5 81,097	5 586,430	5 226,845	5 732,279	5 226,045	5 731,378	1070.	25 5 0500	5 1,670,520	\$ 2,670,933	3 3,341,454	5 2,600,075	4.57	- 3
												•												
		Detributed Products Program	777	771 90	791577	5121585.00	1166	523 60324	\$105 166 16	25.0	5 25.900								3 254.607	5 811.993	5 566.020	5 85.886	2.00	4.
		Res Central Air Conditioners Res Central Heat Pump	323	2190	194,752			523,60326	\$345,186.18		5 5,480	5 168,488 5 39,625	5 65,175 5 15,338		S 64,945 S 15,274			55 S 0.436 86 S 0.393	S 92,599	5 72,344		5 253,886 5 115,423	3.34	+>
	1	RIS ENERGY STAR POOL Purmis	141	58.06	407,376		2.6%	55,039.91			5 9.812			3 85,514	5 27,349			74 5 0.294		5 119,872			3.77	13
		Res Mini-Spiit Heat Pump	2	493	7,300	\$840,00	0.2%	\$427.96	\$1,267.96	15.0	5 203		\$ 500		\$ 567	3 1335	8.761	86 5 0.393	5 4,126	\$ 2,816	3 0,942		3.78	- 5
																								_
measure max = 40	Hard-To-Reach SOP		2,956	1,767.89	2,692,984	\$ 883,880.69	100%		\$883,880.69	NA.	\$ 152,759	\$ 1,036,640	\$ 410,400	5 1,294,281	\$ 409,000	5 1,292,881			\$ 1,465,520	\$ 1,039,558	\$ 2,505,079	\$ 1,212,198	1.94	5
		Hard-To Reach Standard Offer Program Res &r Infiltration	78.7	278.03	728,709	534951546	41.79		9349 919 08	21.0	5 60,406	5 409.921	5 162,286	5 511,801	5 160,732	5 511.348	-	81 5 0.316	5 492,009	5 230.012	5 722.120	5 200871	1.41	+.
		Ses Ceiling Insulation	371	49491	755,115				\$271,714.90		5 46,960	5 218,075								5 410,404		5 564,513	242	
		Res Duct Efficience Improvement	707	211.29	379,393	\$122,415.23	11.9%		\$122,015.25	35.0	\$ 21,157	5 143572	5 56,839	5 179,255	5 56,645		9365	55 5 0.439		\$ 166,026		3 184,753	2.03	3
		Res ENERGY STAR Gmmi-Directional LED Lamps (Low Income Baseline)	635	32.66	209,943	\$42,465.00	1.8%		\$42,095.00	10.0	3 7,344	5 49339	5 19,731	5 62,226	5 19,664	5 62,159	629.2	74 5 0.294	\$ 20,548	5 61,777	\$ 82,346	\$ 20,186	1.32	5
		Res Low-PlowShowerheads	306	51.21	139,237	\$17,680.00	2.6%		\$17,890.00	10.0	3,056	5 20,736	5 8,200	5 2510	5 8,281	3 250	629.2	74 5 0.294	5 32,252	\$ 40,677	3 72,928	5 47,097	282	- 5
		Considerate Description	+	_	_			_		_							_	_	_				_	+
		CoolSever Program Res &ir Conditioner or Heat Pump Tune-Up	116	78.50	199,274	519,890.00	4.5%		\$19,590.00	5.0	5 3439	5 21.326	5 9.2%	1 20,22	5 9.204	5 29,094	257.5	59 5 0160	\$ 25,180	\$ 33.297	\$ 61.477	5 32.303	2.21	1
											1,100								-			15,00		T
		Multifamily HVAC Program			-																			4
		Res Central Heat Pump	33	171.06	216,009	\$40,170.10	0.0%		\$80,170.10 \$0.00	25.0	5 10,399	5 70569	5 27,938	5 88,108	5 27,343	3 88,013		86 5 0.392	3 143,187	5 96,464		\$ 151,618	272	45
		Res ENERGY STAR Connected Thermostats	7	+	2,543	50.00	0.0%	_	\$0.00	31.0	3 .	5 .	3 .	3 .	3 .	3 .	675.2	81 5 0316	3 .	5 803	3 803	3 803	4DN/0!	+3
			12,234															_						1
				20,007.55		\$ 4,431,858.25		\$ 1,477,046,66	\$ 5,908,904.91		\$ 823,3/2,70	\$ 6,732,277.61	\$ 2,496,579,70	5 8,405,484.61	5 2,487,219,70	5 8,396,124.61			5 11.579.856		5 26,919,330	S 18,523,206	3.21	s

	Program Incentives (These columns will auto-populate)				1	Program Specific Admin: Enter Manually			Alloca	nin Calculation (Excludi ited based on Total Inco C22, C23, C25 and resul	entives:	Total Admin Cost Effectiveness Calculation (Including Bonus) Allocated based on Program Costs:							
Program		Incentives	Incentive as % of Total Incentives (R&D/Other Admin Allocator)	(Do not inc by a uti proceeding	Specific Admin lude the costs paid lity for an EECRF ; here; these values at from the CE test)	Program Specific R&D	Program Specific EM&V Admin (TetraTech Allocation not actual expenditures)	R&D/Other Admin Portion	EM&V Costs	Costs Paid by a Utility for an EECRF Proceeding (to be included in Total Admin for Bonus Calculation)	Total Admin for Bonus Calculation (Excluding Bonus)	Total Program Costs (EEPR)	Program Costs as % of Total Spending (Bonus Allocator)	Bonus Portion (Enter value in C24)	Total Admin for Cost- effectiveness Calculation (Including Bonus)	Total Program Costs (Cost Effectiveness)			
ommercial Solutions	\$	2,569,181	43.48%	\$	239,123.70			\$ -	\$ -	\$ 4,069.71		\$ 2,877,941.79	42.75%	\$ 715,269.43					
ad Management	\$	151,873	2.57%	\$	30,097.21		\$ 9,447.06	\$ -	\$ -	\$ 240.57			2.87%	\$ 48,012.06					
sidential SOP	\$	1,556,896	26.35%	\$	161,797.18	\$ 15,611.81	\$ 20,778.28	\$ -	\$ -	\$ 2,466.20		\$ 1,757,549.07	26.11%	\$ 436,812.56					
sidential Solutions	\$	747,075	12.64%	\$	91,254.68	\$ 7,491.31	\$ 19,962.70	\$ -	\$ -	\$ 1,183.40		\$ 866,966.78	12.88%	\$ 215,471.64					
d-To-Reach SOP	\$	883,881	14.96%	ŝ	126,307.86	\$ 8,863.14	\$ 16,187.92	\$ -	\$ -	\$ 1,400.11	\$ 152,759.03	\$ 1,036,639.72	15.40%	\$ 257,641.31	\$ 409,000.23	\$ 1,292,880.9			
	0.0 \$		0%	_															
	0.0 \$	-	0%																
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ortfolio Total	\$	5,908,905	100%	\$	648,580.63	\$ 59,251.70	\$ 106,180.37	\$ -	\$ -	\$ 9,360.00	\$ 823,372.70	\$ 6,732,277.61	100%	\$ 1,673,207.00	\$ 2,487,219.70	\$ 8,396,124.61			
	Other Costs to Be Allocated Among All Programs inter Blue Cells Manually; Green Will Autocalculate if Step 1									ule: How to allocate non-	on-program specific expenses				\$ (1,675,026.37)				\$

Other Costs to Be Allocated Among All Pi Enter Blue Cells Manually; Green Will Autocald completed:	_	PUC Rule: How to allocate non-program specific expenses	\$
RAD and Non-program specific Admin to be Allocated (Rate Case Spenses Details include any costs incurred by the utility for an EEDRR friespers autest they have already been included in the program specific admin in column F. Do net include the costs paid by a utility from EEDRR proceeding here these values exempt from the CE test. Enter those costs separately in cell C25 below.)		(ii). Any portion of these costs which we not directly assignable to a specific program shall be allocated among the programs in proportion to the program incentive costs. Any banus awarded by the commission shall not be included in program costs for the purpose of applying these limits.	
Third party EM&V Costs (Ex: Frontier EM&V counted as admin)		(i) Any partion of these cods which are not diredly assignable to a specific program shall be allocated among the programs in proportion to the program incentive cods. Any bonus awarded by the commission shall not be included in program cods for the purpose of applying these limits.	
Bonus for Cost-effectiveness (bonus collected during the PY) Costs Paid by a Utility for an EECRF Proceeding	\$ 1,673,207.00	(b)(ii). The bonus shall be allocated in proportion to the program costs associated with meeting the demand and emergy goals and allocated to eligible customers on a rate class basis.	-
(To be included as admin in the "total program cost" input for the bonus calculation in Step 4)		These are costs to be included as admin in the "Total program costs" for the bonus calculation (per the preemble og 150). Please note these values are enduded from the cost-effectiveness test (per the preamble and email from Katie Rich). This is why they are not included in either the program-specific admin values or the non-program specific admin in other calls on this tab.	

Program Year 2020

Energy Efficiency Performance Bonus Calculator

	kW	kWh
Demand and Energy Goals	15,500	27,156,000
Actual Demand and Energy Savings	20,008	44,885,306
Reported/Verified Hard-to-Reach	1,768	
Program Costs (excluding bonus)	\$6,73	2,278
Program Costs (including bonus)	\$8,40	5,485
Performance Bonus	\$1,85	1,385

Directions:

Fill in blue cell and performance bonus will calculate.

All green cells will auto-populate

All inputs must be accounted for the in the "Fixed Inputs,"
"Admin Allocation," and "Results Calculator" tabs in order to
correctly calculate bonus.

11%	Hard-to-Reach Goal Met?
	Bonus Calculation Details
129%	Percentage of Demand Reduction Goal Met (Reported kW/Goal kW)
165%	Percentage of Energy Reduction Goal Met (Reported kWh/Goal kWh)
TRUE	Met Requirements for Performance Bonus?
\$26,919,330	Total Avoided Costs
\$8,405,485	Total Program Costs (including bonus)
\$18,513,846	Net Benefits
\$2,692,002	Calculated Bonus (((Achieved Demand Reduction/Demand Goal - 100%) / 2) * Net Benefits)
\$1,851,385	Maximum Bonus Allowed (10% of Net Benefits)

Resident	ial & Cor	nmercia	I EULs			
Sector	TRM Measure	DO NOT DELETE, FOR SEARCH Step 2 tab	Energy Efficiency Measure	EUL (years)	TRM Version	
Custom	NA	1	Custom	NA	NA	Custom
Residential	2 1 1	2	Res Standard Compact Fluorescent Lamps (Standard Baseline)	8.0	70	Res Standard Compact Fluorescent Lamps (Standard Baseline)
Residential	211	3	Res Standard Compact Fluorescent Lamps (Low Income Baseline)	100	70	Res Standard Compact Fluorescent Lamps (Low Income Baseline)
Residential	212	4	Res Specialty Compact Fluorescent Lamps (Standard Baseline)	8 0	70	Res Specialty Compact Fluorescent Lamps (Standard Baseline)
Residential	212	5	Res Specialty Compact Fluorescent Lamps (Low Income Baseline)	100	70	Res Specialty Compact Fluorescent Lamps (Low Income Baseline)
Residential	213	6	Res ENERGY STAR Omni-Directional LED Lamps (Standard Baseline)	8.0	70	Res ENERGY STAR Omni-Directional LED Lamps (Standard Baseline)
Residential	213	7	Res ENERGY STAR Omni-Directional LED Lamps (Low Income Baseline)	10 0	70	Res ENERGY STAR Omni-Directional LED Lamps (Low Income Baseline)
Residential	214	8	Res ENERGY STAR Specialty and Directional LED Lamps (Standard Baseline)	8.0	70	Res ENERGY STAR Specialty and Directional LED Lamps (Standard Baseline)
Residential	214	9	Res ENERGY STAR Specialty and Directional LED Lamps (Low Income Baseline)	100	70	Res ENERGY STAR Specialty and Directional LED Lamps (Low Income Baselin
Residential	221	10	Res Air Conditioner or Heat Pump Tune-Up	5.0	70	Res Air Conditioner or Heat Pump Tune-Up
Residential	222	11	Res Duct Efficiency Improvement	18 0	70	Res Duct Efficiency Improvement
Residential	223	12	Res Ground Source Heat Pump	20 0	70	Res Ground Source Heat Pump
Residential	224	13	Res Central Air Conditioners	180	70	Res Central Air Conditioners
Residential	224	14	Res Central Heat Pump	15 0	70	Res Central Heat Pump
Residential	225	15	Res Mini-Split Air Conditioners	18 0	70	Res Mini-Split Air Conditioners
Residential	225	16	Res Mini-Split Heat Pump	15.0	70	Res Mini-Split Heat Pump
Residential	226	17	· · · · · · · · · · · · · · · · · · ·	18 0	70	4
Residential	226	18	Res Large Capacity Split System & Single-Package Air Conditioners		70	Res Large Capacity Split System & Single-Package Air Conditioners
	226		Res Large Capacity Split System & Single-Package Heat Pumps	15 0		Res Large Capacity Split System & Single-Package Heat Pumps
Residential		19	Res Large Capacity Split System & Single-Package Ground Source Heat Pumps	20 0	70	Res Large Capacity Split System & Single-Package Ground Source Heat Pumps
Residential	227	20	Res Packaged Terminal Heat Pumps (PTHP)	15 0	70	Res Packaged Terminal Heat Pumps (PTHP)
Residential	228	21	Res Room Air Conditioner (Window)	8.0	70	Res Room Air Conditioner (Window)
Residential	229	22	Res ENERGY STAR Connected Thermostats	11 0	70	Res ENERGY STAR Connected Thermostats
Residential	2 2 10	23	Res Smart Thermostat Demand Response	10	70	Res Smart Thermostat Demand Response
Residential	2 2 11	24	Res Evaporative Cooling	15 0	70	Res Evaporative Cooling
Residential	231	25	Res Air Infiltration	11 0	70	Res Air Infiltration
Residential	232	26	Res Ceiling Insulation	25 0	70	Res Ceiling Insulation
Residential	233	27	Res Attic Encapsulation	25 0	70	Res Attic Encapsulation
Residential	234	28	Res Wall Insulation	25 0	60	Res Wall Insulation
Residential	235	29	Res Floor Insulation	25 0	70	Res Floor Insulation
Residential	236	30	Res ENERGY STAR Windows	25 0	70	Res ENERGY STAR Windows
Residential	237	31	Res Solar Screens	100	70	Res Solar Screens
Residential	238	32	Res Cool Roofs	15 0	70	Res Cool Roofs
Residential	241	33	Res Faucet Aerators	10 0	70	Res Faucet Aerators
Residential	242	34	Res Low-Flow Showerheads	10 0	70	Res Low-Flow Showerheads
Residential	243	35	Res Water Heater Pipe Insulation	13 0	70	Res Water Heater Pipe Insulation
Residential	244	36	Res Water Heater Tank Insulation	7.0	70	Res Water Heater Tank Insulation
Residential	245	37	Res Water Heater Installation - Tankless	20.0	70	Res Water Heater Installation - Tankless
Residential	245	38	Res Water Heater Installation - Fuel Substitution	11 0	70	Res Water Heater Installation - Fuel Substitution
Residential	245	39		_	70	
	247	40	Res Heat Pump Water Heater	13 0	70	Res Heat Pump Water Heater
Residential			Res Solar Water Heater	15 0		Res Solar Water Heater
Residential	248	41	Res Showerhead Temperature Sensitive Restrictor Valves	10 0	70	Res Showerhead Temperature Sensitive Restrictor Valves
Residential	249	42	Res Tub Spout & Showerhead Temperature Sensitive Restrictor Valves	10 0	70	Res Tub Spout & Showerhead Temperature Sensitive Restrictor Valves
Residential	251	43	Res ENERGY STAR Ceiling Fans	10 0	70	Res ENERGY STAR Ceiling Fans
Residential	252	44	Res ENERGY STAR Clothes Washer	11 0	70	Res ENERGY STAR Clothes Washer
Residential	253	45	Res ENERGY STAR Clothes Dryers	16 0	70	Res ENERGY STAR Clothes Dryers
Residential	254	46	Res ENERGY STAR Dishwashers	15 0	70	Res ENERGY STAR Dishwashers
Residential	255	47	Res ENERGY STAR Refrigerators	16 0	70	Res ENERGY STAR Refrigerators
Residential	256	48	Res ENERGY STAR Freezers	22 0	70	Res ENERGY STAR Freezers
Residential	257	49	Res ENERGY STAR Pool Pumps	10 0	70	Res ENERGY STAR Pool Pumps
Residential	258	50	Res ENERGY STAR Air Purifiers	90	70	Res ENERGY STAR Air Punfiers
Residential	259	51	Res Advanced Power Strips	10 0	70	Res Advanced Power Stnps
Residential	2510	52	Res ENERGY STAR Electric Vehicle Supply Equipment (EVSE)	10 0	70	Res ENERGY STAR Electric Vehicle Supply Equipment (EVSE)
Residential	2511	53	Res Solar Attic Fans	15 0	70	Res Solar Attıc Fans
Residential	261	54	Res Refrigerator/Freezer Recycling	80	70	Res Refrigerator/Freezer Recycling
			1100 Honigoraton Toolor Honyoling	1 00	1	

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Commercial	211	55	Comm Lamps and Fixtures Halogen Lamps	15	70	Comm Lamps and Fixtures Halogen Lamps
Commercial	211	56	Comm Lamps and Fixtures High Intensity Discharge Lamps	15 5	70	Comm Lamps and Fixtures High Intensity Discharge Lamps
Commercial	211	57	Comm Lamps and Fixtures Integrated-ballast CCFL Lamps	4 5	70	Comm Lamps and Fixtures Integrated-ballast CCFL Lamps
Commercial	211	58	Comm Lamps and Fixtures Integrated-ballast CFL Lamps	25	70	Comm Lamps and Fixtures Integrated-ballast CFL Lamps
Commercial	211	59	Comm Lamps and Fixtures Integral LED Lamps	90	70	Comm Lamps and Fixtures Integral LED Lamps
Commercial	211	60	Comm Lamps and Fixtures LED Fixtures	15 0	70	Comm Lamps and Fixtures LED Fixtures
Commercial	211	61	Comm Lamps and Fixtures LED Corn Cob	15 0	70	Comm Lamps and Fixtures LED Corn Cob
Commercial	211	62	Comm Lamps and Fixtures LED Tubes	15 0	70	Comm Lamps and Fixtures LED Tubes
Commercial	211	63	Comm Lamps and Fixtures Modular CFL and CCFL Fixtures	16 0	70	Comm Lamps and Fixtures Modular CFL and CCFL Fixtures
Commercial	211	64	Comm Lamps and Fixtures T8 and T5 Linear Fluorescents	15 5	70	Comm Lamps and Fixtures T8 and T5 Linear Fluorescents
Commercial	212	65	Comm Lighting Controls Occupancy Sensor	10 0	70	Comm Lighting Controls Occupancy Sensor
Commercial	212	66	Comm Lighting Controls Photocell (Daylighting Control)	10 0	70	Comm Lighting Controls Photocell (Daylighting Control)
Commercial	212	67	Comm Lighting Controls Timeclock	10 0	70	Comm Lighting Controls Timeclock
Commercial	212	68	Comm Lighting Controls Tuning Control	10 0	70	Comm Lighting Controls Tuning Control
Commercial	2 1 3	69	Comm LED Traffic Signals (8" & 12" Red, Green, & Yellow)	60	70	Comm LED Traffic Signals (8" & 12" Red, Green, & Yellow)
Commercial	2 1 3	70	Comm LED Traffic Signals (Large Pedestnan Signal)	50	70	Comm LED Traffic Signals (Large Pedestnan Signal)
Commercial	2 1 3	71	Comm LED Traffic Signals (Small Pedestnan Signal)	50	70	Comm LED Traffic Signals (Small Pedestnan Signal)
Commercial	2 2 1	72	Comm Air Conditioner or Heat Pump Tune-Up	5 0	70	Comm Air Conditioner or Heat Pump Tune-Up
Commercial	2 2 2	73	Comm Split System/Single Packaged Air Conditioners & Heat Pumps	15 0	70	Comm Split System/Single Packaged Air Conditioners & Heat Pumps
Commercial	2 2 3	74	Comm HVAC Chillers Screw / Scroll / Reciprocating Chillers	20 0	70	Comm HVAC Chillers Screw / Scroll / Reciprocating Chillers
Commercial	2 2 3	75	Comm HVAC Chillers Centrifugal Chillers	25 0	70	Comm HVAC Chillers Centrifugal Chillers
Commercial	224	76	Comm Packaged Terminal Air Conditioners & Heat Pumps	15 0	70	Comm Packaged Terminal Air Conditioners & Heat Pumps
Commercial	224	77	Comm Packaged Terminal Room Air Conditioners	11 0	70	Comm Packaged Terminal Room Air Conditioners
Commercial	225	78	Comm HVAC VFD (AHU)	15 0	70	Comm HVAC VFD (AHU)
Commercial	2 2 5	79	Comm HVAC VFD (Hot Water Pumps)	15 0	70	Comm HVAC VFD (Hot Water Pumps)
Commercial	2 2 5	80	Comm HVAC VFD (Chilled Water Pumps)	15 0	70	Comm HVAC VFD (Chilled Water Pumps)
Commercial	226	81	Comm Condenser Air Evaporative Pre-Cooling	15 0	70	Comm Condenser Air Evaporative Pre-Cooling
Commercial	227	82	Comm Computer Room Air Conditioners	15 0	70	Comm Computer Room Air Conditioners
Commercial	228	83	Comm High-Volume Low-Speed (HVLS) Fans	90	70	Comm High-Volume Low-Speed (HVLS) Fans
Commercial	2 3 1	84	Comm ENERGY STAR Roofs	15 0	70	Comm ENERGY STAR Roofs
Commercial	232	85	Comm Window Treatments (Film)	10 0	70	Comm Window Treatments (Film)
Commercial	233	86	Comm Entrance & Exit Door Air Infiltration	11 0	70	Comm Entrance & Exit Door Air Infiltration
Commercial	2 4 1	87	Comm ENERGY STAR Combination Ovens	12 0	70	Comm ENERGY STAR Combination Ovens
Commercial	2 4 2	88	Comm ENERGY STAR Electric Convention Ovens	12 0	70	Comm ENERGY STAR Electric Convention Ovens
Commercial	243	89	Comm ENERGY STAR Commercial Dishwashers	11 0	70	Comm ENERGY STAR Commercial Dishwashers
Commercial	244	90	Comm ENERGY STAR Hot Food Holding Cabinets	12 0	70	Comm ENERGY STAR Hot Food Holding Cabinets
Commercial	245	91	Comm ENERGY STAR Electric Fryers	12 0	70	Comm ENERGY STAR Electric Fryers
Commercial	246	92	Comm Pre-Rinse Spray Valves	5.0	70	Comm Pre-Rinse Spray Valves
Commercial	247	93	Comm ENERGY STAR Electric Steam Cookers	12 0	70	Comm ENERGY STAR Electric Steam Cookers
Commercial	248	94	Comm Demand Controlled Kitchen Ventilation	15 0	70	Comm Demand Controlled Kitchen Ventilation
Commercial	249	95	Comm Commercial Ice Maker	85	70	Comm Commercial Ice Maker
Commercial	251	96	Comm Door Heater Controls	12 0	70	Comm Door Heater Controls
Commercial	252	97	Comm ECM Evaporator Fan Motor	15 0	70	Comm ECM Evaporator Fan Motor
Commercial	253	98	Comm Electronic Defrost Controls	100	70	Comm Electronic Defrost Controls
Commercial	254	99	Comm Evaporator Fan Controls	16 0	70	Comm Evaporator Fan Controls
Commercial	255	100	Comm Night Covers for Open Refingerated Display Cases	50	70	Comm Night Covers for Open Refrigerated Display Cases
Commercial	256	101	Comm Solid and Glass Door Reach-Ins	12 0	70	Comm Solid and Glass Door Reach-Ins
Commercial	257	102		40	70	Comm Strip Curtains for Walk-in Refingerated Storage
Commercial	258	102	Comm Strip Curtains for Walk-In Refingerated Storage		70	4
Commercial	258	103	Comm Zero Energy Doors for Refrigerated Cases	12 0	70	Comm Zero Energy Doors for Refrigerated Cases
			Comm Door Gaskets for Walk-in & Reach-in Coolers & Freezers	40		Comm Door Gaskets for Walk-in & Reach-in Coolers & Freezers
Commercial	261	105	Comm Vending Machine Controls	50	70	Comm Vending Machine Controls
Commercial	262	106	Comm Lodging Guest Room Occupancy Sensor Controls	10 0	70	Comm Lodging Guest Room Occupancy Sensor Controls
Commercial	263	107	Comm Pump-Off Controller	15 0	70	Comm Pump-Off Controller
Commercial	264	108	Comm ENERGY STAR Pool Pumps	10 0	70	Comm ENERGY STAR Pool Pumps
Commercial	265	109	Comm Computer Power Management	30	70	Comm Computer Power Management
Commercial	266	110	Comm Premium Efficiency Motors	15 0	70	Comm Premium Efficiency Motors
Commercial	267	111	Comm Central Domestic Hot Water (DHW) Controls	15 0	70	Comm Central Domestic Hot Water (DHW) Controls

M&∨	2 1 1	112	M&V Air Conditioning Tune-Up	5 0	70	M&V Air Conditioning Tune-Up
M&V	212	113	M&V Ground Source Heat Pump	15 0	70	M&V Ground Source Heat Pump
M&V	213	114	M&V Vanable Refrigerant Flow Systems	15 0	70	M&V Vanable Refrigerant Flow Systems
M&V	2 2 1	115	M&V New Homes	23 0	70	M&V New Homes
M&V	2 3 1	116	M&V Comm Solar Photovoltaic (PV)	30 0	70	M&V Comm Solar Photovoltaic (PV)
M&V	232	117	M&V Res Solar Photovoltacı (PV)	30 0	70	M&V Res Solar Photovoltacı (PV)
M&V	233	118	M&V Solar Shingles	30 0	70	M&V Solar Shingles
M&V	2 4 1	119	M&V Comm Behavioral	10	70	M&V Comm Behavioral
M&V	2 4 2	120	M&V Air Compressors < 75 hp	10 0	70	M&V Air Compressors < 75 hp
M&V	2 4 3	121	M&V Comm Retro-Commissioning	50	70	M&V Comm Retro-Commissioning
M&V	2 4 4	122	M&V Thermal Energy Storage	15 0	70	M&V Thermal Energy Storage
M&V	251	123	M&V Res Load Curtailment	10	70	M&V Res Load Curtailment
M&V	252	124	M&V Comm Load Curtailment	10	70	M&V Comm Load Curtailment
M&V	Х	125	M&V Project - 15 EUL	15		M&V Project - 15 EUL
M&V	х	126	M&V Project - 2 9 EUL	29		M&V Project - 2 9 EUL
M&V	Х	127	Old Measure - 8 5 EUL	8.5		Old Measure - 8 5 EUL
M&V	х	128	M&V Project - 10 EUL	10		M&V Project - 10 EUL

Responding Party: Cities Docket No.: 52067
Requesting Party: ETI Question No.: ETI 1-2

Prepared by: Counsel

Sponsoring Witness: Karl Nalepa

REQUEST:

1-2 Please refer to the Direct Testimony of Karl J. Nalepa at page 14, footnote 24. Please provide a copy of "Bonus Calculator KN WP" in native format.

RESPONSE:

Please see the response to ETI 1-1.

The following files are not convertible:

Bonus Calculator_KN WP.xlsx

Please see the ZIP file for this Filing on the PUC Interchange in order to access these files.

Contact centralrecords@puc.texas.gov if you have any questions.