HEE continued -

KTANG ENERGY SAVER .INC

Lighthouse Solar Austin Lonestar energy solutions

Longhorn Solar Lu and Sons

Major Solar & Electrical Services

Meridian Solar, Inc.

Native Inc

NCH Corporation
New Day Energy, LLC

NRG Conservation, Inc. DBA Energy Experts

NRG Pros

NRG RESIDENTIAL SOLAR SOLUTIONS, LLC

NRG Savers

Ormeno Enterprises LLC DBA M&P Energy Solutions

P D Construction Company dba Elect Saver

Performance Contracting Inc
Plan B Remodeling Systems
Prime Insulation & Construction
REC Solar Commercial Corporation

Revolve Solar LLC

River Co

RonRush Investment DBA Universal Solar System

San Miguel and Associates, Inc. Saving Energreen Houses, LLC

Saving Energreen Houses, LLC

Saving Energy Solutions LLC

Self Reliant Solar LLC

Simple Power Systems LLC

SoCore Installation Services LLC

Solar CenTex LLC

Solar Haven Energy L L C

SolarCity Corporation

SolarLife Technology LLC

Solarview Inc

SRV Solutions

Sun City Solar Energy-North Texas LLC

SunPower Corporation, Systems

Target Corp

Texas Responsible Energy & Efficiency

Texas Sun Power LLC
Texas Watt Savers

Texoma Energy Solutions
The Energy Shop, Inc.
The Insulation Guy

TheGreenHomeMakeover.com
TRANSOFT CORPORATION LLC

Trusted Energy Services

TXE Solutions LLC DBA Service City Electric

Victor Reyes

Wells Solar & Electrical Services LLC Yella Rose Development Corporation

Healthcare MTP

Willdan Energy Solutions

Residential Demand Response MTP

Ecobee Inc.

EnergyHub

Reliant Energy Retail Services, LLC

Whisker Labs, Inc.

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Commercial Solar PV SOP

1 Sun Solutions LLC

Advent Systems INC., DBA SolarTechs

AITEO7 LLC

Amos Electric Supply, Inc.

Axium Solar Inc.

Aztec Renewable Energy, Inc

Byrd electric Circle L Solar City of Dallas City of Snyder

CRsolar Energy Solutions / CR-Invent LLC

Davis Electric Co.

DFW SOLAR ELECTRIC, LLC Earthwise Constructors Group Corp

Ecolectrics LLC

Ecological Estates LLC

Electric Distribution & Design Systems

Entero Energy LLC
Facility Solutions Group
Freedom Solar LLC
Good Faith Energy
GoSolarGo, Inc.

Graybar Electric Company, Inc. Green Generation Solutions LLC Green Ox Energy Solutions, LLC

Green Wolf Energy Inc Greenbelt Solar LLC

GreenLife Technologies, Inc.

Hobson Air Conditioning Inc

Holtek Enterprises Inc. dba Holtek Solar INFINITY SOLAR SOLUTIONS LLC

Kingdom Consulting Services, DBA Elite Energy

Partner

Kosmos Solar

Lighthouse Solar Austin

Longhorn Solar

Major Solar & Electrical Services

Max Electric

Meridian Solar, Inc.

Native Inc

Oncor

NCH Corporation

Nia Power LLC

performance contracting inc R. Williams Electric, Inc. Renewable Republic

RonRush Investment DBA Universal Solar System

Self Reliant Solar LLC Smartworld energy Inc Solar CenTex LLC SolarCity Corporation SolarLife Technology LLC Solartime USA LLC

Solarugreen Corporation

Sun City Solar Energy-North Texas LLC

Sunfinity Solar-TX, LLC

Target Corp

Texas Responsible Energy & Efficiency

Texoma Energy Solutions The Energy Shop, Inc. TreeHouse, Inc

Unger Electric LLC Vision Solar LLC

W Energies Group Solar One, LLC.

Willdan Energy Solutions

Wright-Way Solar Technologies, LLC

C-5

Residential Solar PV SOP

1 Sun Solutions LLC

Advent Systems INC., DBA SolarTechs

AffordaSolar Inc AITEO7 LLC Alba Energy LLC

Alternatex Solutions, LLC Amos Electric Supply, Inc.

Axium Solar Inc.

Aztec Renewable Energy, Inc

Byrd electric Circle L Solar

CRSolar Energy Solutions / CR-Invent LLC

Davis Electric Co.

DFW SOLAR ELECTRIC, LLC Earthwise Constructors Group Corp

Ecolectrics LLC

Ecological Estates LLC

Electric Distribution & Design Systems

Facility Solutions Group Fisher Renewables LLC Freedom Solar LLC Good Faith Energy GoSolarGo, Inc. Green NRG, Inc.

Green Ox Energy Solutions, LLC

Green Wolf Energy Inc Greenbelt Solar LLC

GreenLife Technologies, Inc.

Hemco Electrical Contractors, Inc.

HEsolar LLC

Hobson Air Conditioning Inc

Holtek Enterprises Inc. dba Holtek Solar

i.e.s. residential

INFINITY SOLAR SOLUTIONS LLC

Kosmos Solar

Lighthouse Solar Austin

Longhorn Solar

Major Solar & Electrical Services
Marc Jones Construction LLC

Max Electric
Native Inc

Longhorn Solar

Major Solar & Electrical Services

Max Electric Native Inc

New Day Energy, LLC Now Energy LLC

NRG RESIDENTIAL SOLAR SOLUTIONS, LLC

PetersenDean Texas INC Revolve Solar LLC

RonRush Investment DBA Universal Solar System

Second Energy LLC Self Reliant Solar LLC Simple Power Systems LLC

Solar CenTex LLC

Solar Haven Energy L L C

Solar Side Up LLC Solarch Integration LLC SolarCity Corporation SolarLife Technology LLC

SOLARTEK ENERGY OF AUSTIN

Solarugreen Corporation

Solarview Inc

Speir Innovations LLC

Sun City Solar Energy-North Texas LLC

Sunvergence Energy, LLC. Sustainable Services LLC

Texas Responsible Energy & Efficiency

Texas Solar Power Company Texas Sun Power LLC Texoma Energy Solutions The Energy Shop, Inc. Tower Association Crue

Vision Solar LLC

Trusted Energy Services

Wells Solar & Electrical Services LLC

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Hard-to-Reach SOP

1 Way Services AKA One Way Services

5 Star Energy Savers A Better Insulation

A Plus Energy Solution LLC A&E HOME INSULATION

Affordable Solarscreens & Blinds Inc

Allied Energy Savers

AllSave Energy Solutions, LLC AllSave Energy Solutions, LLC B & B TEXAS CONTRACTORS

B and D Efficiency Better Than Lights

Chuck hart's energy connection

Classica la fe Conergy

Crouch Capital, DBA ACT Home Energy Specialists

D & R Insulation
Dallas Insulation LLC
DeRocher Associates
Designs By Marlene
E2 Conservation

Ecoenergy Conservation Group, LLC ECOGREEN ENERGY SOLUTIONS

Eden Energy Solutions, LLC

Electric Reducer EnerChoice LLC

Energy Audits Of Texas

ENERGY CONSERVATION CONCEPTS

Energy Efficient Measures LLC

Energy Improvements

Energy Saver Pro

Excel 5-Star Energy Inc.

FREE Specialists, LLC

Garden of Eden

GNS Energy Efficiency

Gonzalez Insulation

Green Conservation

Oncor

GS CONSERVATION LLC

HML Energy Solutions LLC

Home Energy Efficiency

Home Energy Program

Home Improvement Systems, Inc.

Home Save Energy

INSUL ATTIC CORPORATION

JP Energy Conservation Lonestar energy solutions

Lu and Sons

NRG Conservation, Inc. DBA Energy Experts

NRG Pros NRG Savers

P D Construction Company dba Elect Saver

Plan B Remodeling Systems

River Co

San Miguel and Associates, Inc. Saving Energreen Houses, LLC Saving Energy Solutions LLC

SRV Solutions

TheGreenHomeMakeover.com
TRANSOFT CORPORATION LLC

TXE Solutions LLC DBA Service City Electric

Victor Reves

Yella Rose Development Corporation

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Commercial SOP (Basic)

24 HOUR LTD 2C Technology Inc.

7-Eleven Inc

A Federal Source, LLC ABM Building Services

Accurate Electrical Systems, Inc.

acm services llc

Adair Mechanical Services

Aelux, LLC

Agape electrical services llc

AGES Consult, dba Alternative Green Energy Solutions

AllSave Energy Solutions, LLC

Ameresco Dallas LLC

American Energy Efficiencies Inc.
Ameritech Energy Corporation

Amos Electric Supply, Inc. Aquila Environmental LLC Aquila Environmental LLC ARIES CORPORATION Ari-Tex Management, Inc.

ARJO Engineers, Inc.
Artex Automotive Sales II, LLC

ASG Energy, LLC

B & B TEXAS CONTRACTORS

Bambu Energy
Benchmark Group Inc.
Better Than Lights
BHHG Energy, LLC
BIDENERGY INC

Big D Electric LLC Bowen Electric Co., Inc.

Boxer Property Management Corp

Boxer Property Management Corp

Brite Innovations Group, LLC Capstone Mechanical LP

Carrier Corporation

Carrier Corporation
Chateau Energy Solutions LLC

Christ United Methodist Church

Clear Blue Energy Corp.

Cole Air Conditioning Company Inc

Colorado Lighting, Inc.

Conergy

Cracker Barrel Old Country Store INC

Cree Inc.

Creekwood Frisco Gaylord, LLC Creekwood Frisco Gaylord, LLC

Curtis H. Stout, Inc.
Curtis H. Stout, Inc.
cVal Innovations LLC
cVal Innovations LLC

Dallas County Community College District

Dalworth Lighting Services

Daniels Air, Inc.

DFW International Airport DFW International Airport DFW LED Lights LLC

Earthwise Constructors Group Corp
ECOGREEN ENERGY SOLUTIONS

Ector County

E-MC Electrical, Inc. Encentiv Energy, Inc.

ENCORE WIRE CORPORATION

Energy & Automation, Inc Energy Audits Of Texas

Energy Conservation and Supply Inc. Energy Management Collaborative, llc

Energy MPS

Energy Solutions of Texas Energy Source, LLC

Energy Wise LED Solutions, LLC

EnerNet Solutions LLC
Entech Sales & Service

Envirolite LLC

Environmental Lighting Service, LLC ERO ELECTRICAL SERVICES LLC

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Commercial SOP (Basic) continued-

ESA Energy Systems Associates, Inc.
Essential Lighting Solutions, Inc.
Estes, McClure & Associates, Inc.
E-TEX ENERGY SOLUTIONS LLC

Everman ISD EWP Ventures, LLC

Ex3 Facility Solutions, LLC Facilities Service Group, Inc. Facility Innovations Group Facility Solutions Group Faith Family Academy

Federal Lighting Illumination Capital, LLC

Flying X Capital LLC Forza Energy LLC FREE Specialists, LLC

Garden of Eden

General Services Administration

GentzlerElectric

Graybar Electric Company, Inc. Green Energy Texas Tech Green Generation Solutions LLC

Green Light Southwest

Green Property Advisors, LLC

GREEN ZONE

Greenleaf Energy Solutions LLC
Groom Energy Solutions LLC

Hargis Electric LLC. Hargrove-Neel, Inc.

Harrison, Walker & Harper, LP Heat Transfer Solutions, Inc. Heritage Institute of Sustainability

Hillhouse Power Solutions Home Energy Efficiency

Home Improvement Systems, Inc.

Home Save Energy Howard County Hulen Mall, LLC Hurst Electric, LP Inergy Solutions

INFINITY SOLAR SOLUTIONS LLC

Irving ISD

James L West Presbyterian Special Care center

Jim Whitten Roof Consultants, LLC

JJA Inc.

JKD Construct Co.dba Mr E Electric of Grand Prairie

Johnson Controls Inc

Joseph & Sammel, dba Southwest Electric & Supply

JP Energy Conservation

Kevco Electrical Construction, Inc.

KirEnergy Services LLC

Kroger

KWik Energy Solutions, LLC

Landlord Utility Mgmt. dba JEC Energy Savings

LED2 Solutions, LLC Light Pioneers LLC LightSource Unlimited

Linda Gregory, LLC dba Energy Saving Strategies

Littles and Associates, LLC
LNS Energy Solution

Luke Motor Company II, LLC Managed Energy Systems, LLC Mascot Mechanical LLC

MCD Services, LLC/DBA: DEC McKinstry Essention, LLC MD Engineering LP,LLP

Mechanical Solutions, Inc
MHSC Energy Management LLC

MJK Lighting LLC Monterey Energy, Inc.

National Lighting Electrical Services Inc

New Academy Holding Company

NexRev, Inc NORDCO, INC.

NRG Conservation, Inc. DBA Energy Experts

Commercial SOP (Basic) continued-

Obtainable Energy
OnPoint, LLC

On-Site Lighting & Survey LLC

OpSolve, LLC

OpTerra Energy Services Inc.

PBK Architects, Inc.
Peak Power Partners

Perco Energy Services, Inc. Perry Office Products, Inc.

Pflugerville ISD

Phillips Electrical Services, Inc. Plan B Remodeling Systems

Polaris LED

Premium Waters Inc ProSource Power LLC

Quinlan ISD

R. Williams Electric, Inc. RaceTrac Petroleum, Inc

Ralen electric

Rapid Power Management LLC

Realwinwin, Inc.

Reed, Wells, Benson and Company

Regency Enterprises Inc. dba Regency Lighting

Restaurant Lighting Concepts

RetroLum LED, LLC.
Rexel Holdings USA Corp

Richardson ISD Ridglea Electric Inc.

San Miguel and Associates, Inc. Saving Energreen Houses, LLC

Schneider Electric Buildings Americas Inc Schneider Electric Buildings Americas Inc

Shirley Air Inc.

Simon Property Group-Broadway Square

SmartWatt Energy Inc Smith Engineering PLLC Southwest Energy Solutions Stephenville City Electric Inc Stephenville City Electric Inc

Stiff's 5 Star Energy Conservation Services

Summit Electric Supply Co., Inc. Summit Energy Services, Inc.

SUNDOG LED, LLC Sunrise Development LLC Sylvania Lighting Services Synergy Power Solutions USA

Target Corp

TCDFW Industrial Development, Inc.

TDIndustries

Templeton Electric Company

TEMSCO, Inc.

Terrell Independent School District

Texas AirSystems LLC
Texas Maintenance Solutions

Texas Tech University Health Sciences Center

Texas Turnkey Energy Solutions, LLC.

The Brandt Companies, LLC

THE HILLSHIRE BRANDS COMPANY

The Neiman Marcus Group LLC.

The Ogni Group

The Reynolds Company

The Right Choice Heating & Air Inc

Titan LED, Inc Trammell bell, Ilc

Trane

Trinity Lighting and Electrical Services

Triton Supply TTESCO

TXU Energy Retail Company LLC

US Energy Management
Us Energy Recovery

Valderrama Energy Services Vandergriff Automotive II LLC

2018 EEPR Appendices

Commercial SQP (Basic) continued-

Vandergriff Chevrolet II, LLC

Vandergriff Hyundai II, LLC

Verizon Corporate Services Group, Inc.

Voss Lighting

W. Douglass Distributing LTD

Waxahachie ISD

Waypoint Lighting LLC

WESCO Distribution, Inc.

Whatabrands LLC

Willdan Energy Solutions

WLS Lighting Systems

Word of God Fellowship, Inc, DBA Daystar Television

Network

World Energy Resources Corp

Xtra Light Manufacturing

YES LED Lighting, Inc

Zoom Air, Inc.

APPENDIX D: SHARYLAND 2017 ENERGY EFFICIENCY FUNDING AND PROGRAM RESULTS

Oncor D-1 2018 EEPR Appendices

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Sharyland Funding for Calendar Year 2017

PY2017	Total Projected Budget	Numbers of Customers Participating or Installed Measures	Actual Funds Expended (Incentives)	Actual Funds Expended (Admin)	Total Funds Expended
Commercial	\$193,477	6	\$107,197	\$16,760	\$123,957
Commercial SOP	\$11,500	0	\$0	\$2,070	\$2,070
Load Management SOP	\$45,977	1	\$25,664	\$10,939	\$36,603
Customized Commercial MTP	\$80,000	3	\$36,801	\$3,751	\$40,552
Open for Small/Medium Business MTP	\$56,000	2	\$44,732	\$0	\$44,732
Residential	\$182,263	152	\$158,299	\$40,864	\$199,162
Residential SOP	\$182,263	152	\$158,299	\$40,864	\$199,162
Hard-To-Reach	\$135,015	58	\$119,335	\$28,025	\$147,359
Hard-To-Reach SOP	\$66,459	32	\$57,681	\$14,890	\$72,571
Targeted Low Income Weatherization Program	\$68,556	26	\$61,653	\$13,135	\$74,788
Research & Development	\$10,862		E 14 - 17 PM	\$15,299	\$15,299
2017 EECRF Proceeding Costs	\$0			\$46,179	\$46,179
EM&V Support	\$0			\$237	\$237
EM&V (TetraTech)	\$8,986			\$5,476	\$5,476
Total Annual Expenditures	\$530,603	216	\$384,831	\$152,839	\$537,670

Sharyland Program Results for Calendar Year 2017

Program	Sector	kWh	kW
Customized Commercial MTP	Commercial	78,568	24.79
Residential SOP	Residential	554,920	218.30
Hard-to-Reach SOP	Residential	127,683	43.05
Targeted Low-Income Weatherization Program	Low Income	67,386	35.42
Load Management SOP	Commercial	1,284	642.00
Total		829,841	963.56

^{*} Program results are the evaluated savings provided by the PUCT Evaluator.

ATTESTATION STATEMENT

Pursuant to P.U.C. Subst. R. 25.71(d), I attest that the information provided in this 2018 Energy Efficiency Plan and Report has been reviewed internally for accuracy and I have the authority to make this report on behalf of Oncor Electric Delivery.

Darryl Nelson

Date

Oncor's Energy Efficiency Expenses by Rate Code for 2017 Program Year

а	b	С	ď	е	f	g	h
	Residential	Secondary ≤ 10 kW	Secondary > 10 kW	Primary > 10 kW Distribution Line	Primary > 10 kW Substation	Transmission Service Non-Profit	
		Rate Code B0, B1, B4	Rate Code D0, D1, D4, D6, DC, DJ, DK, DQ, DR, E0, E1, E4, EC, EJ, EQ	Rate Code J0, K0, K1, K4	Rate Code L0	Rate Code N0, N4	Total
Home Energy Efficiency SOP	\$13,601,539	\$0	\$0	\$0	\$0	\$0	\$13,601,539
Solar PV - Residential	\$2,907,720	\$0	\$0	\$0	\$0	\$0	\$2,907,720
Residential Demand Response MTP	\$1,058,334	\$0	\$0	\$0	\$0	\$0	\$1,058,334
Hard-to-Reach SOP	\$6,885,721	\$0	\$0	\$0	\$0	\$0	\$6,885,721
Targeted Weatherization Low-Income SOP (SB 712)	\$5,462,411	\$0	\$0	\$0	\$0	\$0	\$5,462,411
Commercial Load Management SOP	\$0	\$0	\$1,900,560	\$639,116	\$39,068	\$0	\$2,578,744
Commercial SOP (Basic)	\$0	\$504,671	\$8,037,031	\$608,894	\$0	\$138,406	\$9,289,002
Commercial SOP (Custom)	\$0	\$0	\$1,573,252	\$956,418	\$0	\$0	\$2,529,670
Solar PV - Commercial	\$0	\$260,460	\$2,085,181	\$0	\$0	\$0	\$2,345,641
Small Business Direct Install	\$0	\$0	\$1,802,706	\$0	\$0	\$0	\$1,802,706
Healthcare MTP	\$0	\$0	\$358,253	\$37,659	\$0	\$0	\$395,912
Program Expenses by Rate Code	\$29,915,725	\$765,131	\$15,756,983	\$2,242,087	\$39,068	\$138,406	\$48,857,400
Verification (EM&V) Costs for Evaluation of Program Year 2016	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total (Program Expenses by Rate Code + EM&V Costs)	\$29 ,915,725	\$765,131	\$15,756,983	\$2,242,087	\$39,068	\$138,406	\$48,857,400

Program totals include incentives, administration costs and research and development costs as shown in workpaper WP/MRS/3 (total program costs are shown in column (g)) Commercial program rate class allocations are based on rate codes found in WP/MRS/1

EM&V costs incurred in Program Year 2017 were for the evaluation of the 2016 Program Year and are being recovered in the 2018 EECRF

Oncor's 2017 Energy Effciency Performance Bonus Calculation

2017 Net Benefits	Total Program Costs*	kW Saved	kWh Saved	Measure Life - Yrs	kW Avoided Costs	kWh Avoided Costs	Total Avoided Costs kW	Total Avoided Costs kWh	Total Avoided Costs	Net Benefits	Benefit Cost Ratio
Residential	. 1	19 20		10.5 10.00		1318		46,484,465	1.00		
Sofar PV SOP (Residential)	\$2,945,785	1,854.12	6,241,771.2	30.0	\$1,098.88	\$0.54793	\$2,037,455.39	\$3,420,053.69	\$5,457,509.08	\$2,511,724.08	1.85
	10 11 15		1 7 1 1 1 1 1					2000	a.		87.
Targeted Low-Income SOP	\$5,497,580	3,195.71	5,317,765.0		L		\$2,580,774.56	\$2,140,978.00	\$4,721,752.55	-\$775,827.45	0.86
Air Infiltration		151.66	251,928.8	11.0	\$630.32	\$0.31429	\$95,594 33	\$79,178.70	\$174,773 03		1
Ceiling Insulation		295.12	487,270.6	25.0	\$1,020 77	\$0.50898	\$301,249.64	\$248,010.99	\$549,260 63		
Heat Pump		2,391.21	3,989,153 1	15.0	\$775.99	\$0 38693	\$1,855,555.05	\$1,543,523.01	\$3,399,078.06		
Energy Star Regrigerator		71.68	115,308 7	160	\$807 38	\$0.40258	\$57,873.00	\$46,420.98	\$104,293.97		
Showerheads		15.10	21,705.7	10.0	\$588.26	\$0.29332	\$8,882.73	\$6,366.72	\$15,249.44		
Water Heater Jacket		14.87	25,609 4	70	\$446.28	\$0.22253	\$6,636.18	\$5,698.86	\$12,335.04		
Water Heater Pipe Insulation		19 87	34,038.3	13.0	\$707.40	\$0.35273	\$14,056.04	\$12,006.33	\$26,062.37		
Wall Insullation	1	126.88	212,307.0	25.0	\$1,020.77	\$0.50898	\$129,515.30	\$108,060 02	\$237,575.31		
Energy Star Window	T	103.05	169,727.2	25.0	\$1,020.77	\$0.50898	\$105,190.35	\$86,387.75	\$191,578.10		
Floor Insulation		5 93	10,220 2	25.0	\$1,020 77	\$0.50898	\$6,053.17	\$5,201.88	\$11,255.04		
Window A/C		0 34	496.0	8.0	\$496.40	\$0.24752	\$168 78	\$122.77	\$291.55		
					美统性	3 5 X 18 11		1.50		45 (3), 1 (3),	
Hard-to-Reach SOP	\$6,966,705	11,082.95	16,823,965.4				\$9,870,765.25	\$7,639,802.00	\$17,510,567 25	\$10,543,862.25	2 51
Aerators		0.61	1,217.7	10.0	\$588.26	\$0.29332	\$358.84	\$357.18	\$716 01		
Air Infiltration		2,830.20	3,097,557.6	11.0	\$630 32	\$0.31429	\$1,783,931.66	\$973,531.38	\$2,757,463.04		
Ceiling Insulation		6,876.58	11,107,720.3	25.0	\$1,020.77	\$0.50898	\$7,019,406.57	\$5,653,607.48	\$12,673,014.04		
Heat Pump		1,373.29	2,611,660.3	15.0	\$775.99	\$0 38693	\$1,065,659 31	\$1,010,529.72	\$2,076,189.03		
Showerheads		2.10	5,474.7	10.0	\$588.26	\$0.29332	\$1,235.35	\$1,605.84	\$2,841.19		
Energy Star Window		0.17	334.8	25.0	\$1,020.77	\$0.50898	\$173.53	\$170.41	\$343.94		
	11.11.11	7.77 7.72 7.30 7.30		2000年至	* * * * * * * * * * * * * * * * * * * *	4 🙀	为一次 的编 的。				
Residential Demand Response MTP	\$1,088,521	24,151.39	144,903 7	1.0	\$75.46	\$0.03763	\$1,822,463 89	\$5,452.73	\$1,827,916.62	\$739,395.62	1.68
		The grant of		47.11.11	Strates.	(# °)	14 B.A.	· (1 (45 ²), 10	11044	* *
Home Energy Efficiency SOP	\$13,773,367	26,135.13	44,290,620.0				\$20,901,324.98	\$18,143,919.31	\$39,045,244.29	\$25,271,877.29	2.83
Air Infiltration		7,405.26	8,093,458.5	11.0	\$630 32	\$0.31429	\$4,667,683.48	\$2,543,693.07	\$7,211,376.56		
Ceiling Insulation		5,755.72	10,263,852.0	25.0	\$1,020.77	\$0.50898	\$5,875,266 30	\$5,224,095 39	\$11,099,361.70		
Heat Pump		9,843.25	18,472,951.6	15.0	\$775.99	\$0.38693	\$7,638,263.57	\$7,147,739.16	\$14,786,002.73		
Central A/C		3,046.88	7,300,441.5	18.0	\$864.93	\$0.43128	\$2,635,337.92	\$3,148,534.41	\$5,783,872.33		
Energy Star Window		74.86	132,172.3	25.0	\$1,020.77	\$0.50898	\$76,414.84	\$67,273.06	\$143,687.90		
Ground Source Heat Pump		9.09	27,361.8	20.0	\$916.13	\$0.45681	\$8,327.62	\$12,499.14	\$20,826 77		
Water Heater Jacket		0.07	382 3	7.0	\$446.28	\$0 22253	\$31.24	\$85.07	\$116 31		
	4 1 . ·	1. 340		1283	1818		**		43 43 To 1971		÷ *
Residential Total	\$30,271,958	66,419.30	72,819,025.3				\$37,212,784.06	\$31,350,205.73	\$68,562,989.79	\$38,291,031.79	2.26

Oncor's 2017 Energy Effciency Performance Bonus Calculation

	Total Program Costs	kW Saved	kWh Saved	Measure Life - Yrs	kW Avoided Costs	kWh Avoided Costs	Total Avoided Costs kW	Total Avoided Costs kWh	Total Avoided Costs	Net Benefits	Benefit Cost Ratio
Commercial	·	1,51				100 M		516 5 36 4 3 3 4 3 3 4 3 4 4 4 4 4 4 4 4 4 4	Stab au		
Commercial SOP (Custom)	\$2,571,483	2,552.31	16,591,708.1				\$2,206,436 70	\$6,776,977.55	\$8,983,414.25	\$6,411,931.25	3.49
Deemed Cooling	<u> </u>	288.69	2,319,621.3	15.0	\$775 99	\$0.38693	\$224,020 55	\$897,531.07	\$1,121,551.62		
Deemed Cooling		165.81	246,411.0	20.0	\$916.13	\$0.45681	\$151,903.52	\$112,563.01	\$264,466.52		
Deemed Cooling		299.79	2,241,111.9	25.0	\$1,020 77	\$0.50898	\$306,016 64	\$1,140,681.13	\$1,446,697.77		
Lighting Controls		117.41	1,283,682 1	10.0	\$588.26	\$0.29332	\$69,067.61	\$376,529.63	\$445,597.24		
Lighting		825.28	6,656,486.3	15 0	\$775.99	\$0.38693	\$640,409.03	\$2,575,594.24	\$3,216,003.27		
Metered Cooling	<u> </u>	23.77	-14,894 8	20.0	\$916.13	\$0.45681	\$21,776,41	-\$6.804.09	\$14,972.32		
Motor	1	169.31	1.956.549.5	15.0	\$775.99	\$0.38693	\$131,382.87	\$757,047,70	\$888,430.56		
Motor/VFD		116.85	737,477.7	15.0	\$775.99	\$0 38693	\$90,674.43	\$285,352.25	\$376,026.68		
Solar PV	-	391.40	1,165,263.1	30.0	\$1,098 88		\$430,101.63	\$638,482.61	\$1,068,584.24		i
Thermal Storage		154.00	0.0	20.0	\$916.13	\$0.45681	\$141,084.02	\$0.00	\$141,084.02		ſ
	12.51 N. a.	5 7 3 3 3 4 3 3		30 (Ca)	32.400	3088	200		80.88 Y 25 L	1,50	181,3
Commercial Load Management SOP	\$2,609,143	72,060 38	216,181.0	1.0	\$75.46	\$0.03763	\$5,437,676.27	\$8,134.89	\$5,445,811.17	\$2,836,668.17	2.09
Sommercial Edd Management GO	V2,000,140	72,000 00	210,101.0	X 4 5 X 84	\$195.40 \$195.40	\$0.00700	ψ5,467,676.27	V5,104.65	ψ5,445,611.17	1.5245.15	3 - 23 - 21
Commercial SOP (Basic)	\$9,437,247	11,381.49	67,247,365.3	and the same	12 12 13	3777.2 38 69. 3	\$9,049,132 04	\$27,421,225.54	\$36,470,357.58	\$27,033,110.58	3.86
Deemed Cooling	ψ3,407,247	1,517.48	6,588,770.1	15.0	\$775.99	\$0.38693	\$1,177,549.31	\$2,549,392.81	\$3,726,942.12	\$27,000,770.00	0.00
Deemed Cooling	+	572.44	2,589,903.7	20.0	\$916.13	\$0.45681	\$524,429.46	\$1,183,093.91	\$1,707,523.37		
Deemed Cooling	 	859.92	12,763,833.2	25 0	\$1,020 77		\$877,780.54	\$6,496,535.82	\$7,374,316.36		
Lighting	 	30.40	158,788.7	16.0	\$807.38	\$0.40258	\$24,544.35	\$63,925.15	\$88,469.51		
Lighting	<u> </u>	7,033.42	38,442,969.0	15.0	\$775 99	\$0.38693	\$5,457,863.59	\$14,874,738.00	\$20,332,601.58		
Lighting		227.10	1,550,319.6	9.0	\$543.67	\$0.27109	\$123,467.46	\$420,276.14	\$543,743.60	-	
Lighting	 	279 07	1,378,151.9	15.5	\$791.91	\$0.39487	\$220,998.32	\$544,190 84	\$765,189.16		
Lighting Controls	 		2,539,347 5	10.0	\$588.26	\$0.29332	\$308,377.66	\$744,841.41	\$1,053,219.07		
Air Handler Control	 	524.22									
	· · · · · · · · · · · · · · · · · · ·	42 19	692,357.0	15.0	\$775.99	\$0.38693	\$32,739 02	\$267,893.69	\$300,632.71		
Master Metered Apts-Attic Insulation		295.25	542,924 6	25.0	\$1,020.77	\$0.50898	\$301,382.34	\$276,337.76	\$577,720 11		
· • • · · · · · · · · · · · · · · · · ·	100000011	1 100 01	1017.000.5		A4 000 00	#0.54700	. 32 3 3 4 4 4 4 5 C	***************************************		#4 004 000 CO	1.01
Solar PV SOP (Commercial)	\$2,395,611	1,488.01	4,917,962.5	30 0			\$1,635,144.43	\$2,694,699 19	\$4,329,843.62	\$1,934,232 62	1.81
factoria de la companya della companya della companya de la companya de la companya della compan				3.50		* * *	*	00.005.100.55		24 045 044 04	1.00
Small Business Direct Install MTP	\$1,826,434	1,190.15	7,129,854.4				\$866,314.78	\$2,605,133.55	\$3,471,448.34	\$1,645,014 34	1 90
Lighting Controls		0.01	77.1	10.0	\$588 26	\$0.29332	\$5.88	\$22.61	\$28 50		
Lighting		261 05	1,408,644.4	9.0	\$543.67	\$0.27109	\$141,925.05	\$381,869.41	\$523,794.46		
Lighting	_	714 31	4,516,652.5	15.0	\$775.99	\$0.38693	\$554,297 42	\$1,747,628.35	\$2,301,925.77		
Lighting		214.78	1,204,480.4	155	\$791.91	\$0.39487	\$170,086.43	\$475,613.18	\$645,699.61		
				\$ 17.00	3486						
Healthcare MTP	\$465,816	138.04	1,202,059.90				\$10,416.50	\$45,233.51	\$55,650.01	-\$410,165.99	0 12
Retro-Commission		138 04	1,202,059.9	10	\$75 46	\$0.03763	\$10,416.50	\$45,233.51	\$55,650.01	ļ <u>.</u>	
		1 11 1		Section 1		N. C. Isl		34.0			
Commercial Total	\$19,305,734	88,810.38	97,305,131.2				\$19,205,121	\$39,551,404	\$58,756,525	\$39,450,790.97	3.04
	11.5		《《新教》(新教 》	\$000 To 100		5 JAN 1				क्षित्र राजा	s (5)
R&D	\$0										
EM&V	\$0										
Grand Total	\$49,577,692	155,229.68	170,124,156.5				\$56,417,904.78	\$ 70,901,609.97	\$127,319,514.75	\$77,741,822.75	2.57

Program costs include incentives, administration expenses, R&D, EM&V and rate case expenses, as shown in column (i) of WP/MRS/6

Oncor's 2017 Energy Effciency Performance Bonus Calculation

2017 Minimum Goal MW	69.40	
2017 Achieved Goal MW	155 23	
Percentage Over Goal	123.67%	
Bonus Calculation % of Net Benefits (1%		
of every 2% the Demand Goal is exceeded)	0 6184	
Bonus Based on 61.84% of 2017 Total		
Net Benefits		\$48,075,543
(\$77,741,823 x 6184)		
Bonus Capped at 10% of 2017 Total Net		
Benefits		\$7,774,182

(\$77,741,823 x .1)

Total Bonus

Net Benefit Ca	lculation
\$127,319,515	Total Avoided Costs
-\$49,577,692	- Sum of Total Program Costs
\$77,741,823	= Net Benefits

Avoided Costs are calculated using the present value of Commission-approved initial avoided capicity cost of \$80/kW and initial avoided energy cost of \$0 03989/kWh as stated in Rule \$ 25.181(d)(2) and (d)(3), and based on measure life, 2% escalation rate and 8 14% discount rate as noted in \$ Rule 25.181(h)(5)

\$7,774,182

Oncor's Total 2019 EECRF Request by Rate Code

a	b	С	d	e	f	g	h
	Residential	Secondary ≤ 10 kW	Secondary > 10 kW	Primary > 10 kW Distribution Line	Primary > 10 kW Substation	Transmission Service Non-Profit	
		Rate Code B0, B1, B4	Rate Code D0, D1, D4, D6, DC, DJ, DK, DQ, E0, E1, E4, EC, EJ, EQ	Rate Code J0, K4, K0	Rate Code L0	Rate Code N0, N4	Total
Home Energy Efficiency SOP	\$11,685,990	\$0	\$0	\$0	\$0	\$0	\$11,685,990
Solar PV SOP - Residential	\$2,307,195	\$0	\$0	\$0	\$0	\$0	\$2,307,195
Hard-to-Reach SOP	\$6,889,561	\$0	\$0	\$0	\$0	\$0	\$6,889,561
Targeted Weatherization Low-Income SOP (SB 712)	\$5,036,312	\$0	\$0	\$0	\$0	\$0	\$5,036,312
Residential Demand Response MTP	\$1,489,410	\$0	\$0	\$0	\$0	\$0	\$1,489,410
Retail Platform - Residential	\$1,490,998	\$0	\$0	\$0	\$0		\$1,490,998
Commercial SOP (Basic)	\$0	\$479,346	\$7,633,710	\$578,338	\$0	\$131,461	\$8,822,855
Commercial SOP (Custom)	\$0	\$0	\$2,358,420	\$1,433,739	\$0	\$0	\$3,792,159
Commercial Load Management SOP	\$0	\$0	\$1,982,310	\$666,606	\$40,748	\$0	\$2,689,664
Solar PV SOP - Commercial	\$0	\$264,566	\$2,118,050	\$0	\$0	\$0	\$2,382,616
Small Business Direct Install MTP	\$0	\$0_	\$3,680,919	\$0	\$0	\$0	\$3,680,919
Retail Platform - Commercial	\$0	\$0	\$90,720	\$0	\$0	\$0	\$90,720
Total Estimated Program Expenses by Rate Code	\$28,899,466	\$743,912	\$17,864,129	\$2,678,683	\$40,748	\$131,461	\$50,358,399
2017 EECRF Under Recovery							\$37,177
Municipal Rate Case Expenses for 2017 in Docket No. 47235							\$8,971
Rate Case Expenses for 2017 in Docket No. 47248							\$44,330
Requested Energy Efficiency Performance Bonus for 2017							\$7,774,182
Total 2019 EECRF Request							\$58,223,059

Program totals include incentives, administration costs, research and development costs and evaluation, measurement & verification costs as shown in WP/MRS/4 (column f). Commercial program rate class allocation are based on rate codes found in WP/MRS/1.

Consumer Price Index - All Urban Consumers Original Data Value

Series Id: CUUR0300SA0,CUUS0300SA0

Not Seasonally Adjusted

 Area:
 South urban

 Item:
 All items

 Base Period:
 1982-84≈100

 Years:
 2003 to 2017

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	% increase
2003	175.1	176.4	177.5	177.4	176.8	177.2	-177.3	177.9	178.3	-178 .1	177.5	177.5	177.3	
2004	178.2	179.1	180.1	180.9	182.0	182 9	182.6	182.6	182.8	183.7	183.7	183.3	181.8	2.538100%
2005	183.6	184.7	185.9	187.3	187.3	187.8	188.5	189.4	192.0	192.5	190.7	190.1	188.3	3.575400%
2006	191.5	191.8	192.8	194.7	195.5	196 3	197.0	197.1	195.8	194.7	194.3	194.8	194.7	3.398800%
2007	195.021	195 950	197.904	199.618	200.804	201.675	201.571	201.041	201.697	202.155	203.437	203.457	200.361	2.907600%
2008	204.510	205.060	206.676	208.085	210.006	212.324	213.304	212.387	212.650	210.108	205.559	203.501	208.681	4.152500%
2009	204.288	205.343	206.001	206.657	207.265	209.343	208.819	209.000	208.912	209.292	209.738	209.476	207.845	-0.400600%
2010	210.056	210.020	211.216	211.528	211.423	211.232	210.988	211.308	211.775	212.026	211.996	212.488	211 338	1.680600%
2011	213.589	214.735	217.214	218.820	219.820	219.318	219.682	220.471	220.371	219.969	219.961	219.469	218.618	3.444700%
2012	220.497	221.802	223.314	224.275	223.356	223.004	222.667	223.919	225.052	224.504	223.404	223.109	223.242	2.115100%
2013	223.933	225.874	226.628	226.202	226.289	227.148	227.548	227.837	227.876	227.420	226.811	227.082	226.721	1.558400%
2014	227.673	228.664	230.095	231.346	231.762	232.269	232.013	231.611	231.762	231.131	229.845	228.451	230.552	1.689700%
2015	226.855	227.944	229.337	229.957	230.886	232.026	231.719	231.260	230.913	230.860	230.422	229.581	230.147	-0.175700%
2016	229.469	229.646	230.977	231.975	232.906	233.838	233.292	233.561	234.069	234.337	234.029	234.204	232.692	1.105800%
2017	235.492	236.052	236 154	236.728	236.774	237.346	236.942	237.892	239.649	239.067	238.861	238.512	237.456	2.047300%

Source: Bureau of Labor Statistics - http://data.bls.gov/pdq/SurveyOutputServlet?series_id=CUUR0300SA0,CUUS0300SA0

2017 Net Benefits	Total Program Costs*	kW Saved	kWh Saved	Measure Life - Yrs	kW Avoided Costs	kWh Avoided Costs	Total Avoided Costs kW	Total Avoided Costs kWh	Total Avoided Costs	Net Benefits	Benefit Cost Ratio
Residential				1.2%			7. No. 1	2			
Solar PV SOP (Residential)	\$3,533,160	1,854.12	6,241,771.2	30.0	\$1,098 88	\$0 54793	\$2,037,455.39	\$3,420,053.69	\$5,457,509.08	\$1,924,349 08	1 54
	1 1		1. 1. 1. 1.	128							
Targeted Low-Income SOP	\$6,593,770	3,195.71	5,317,765.0				\$2,580,774.56	\$2,140,978.00	\$4,721,752.55	-\$1,872,017.45	0.72
Air Infiltration		151.66	251,928 8	11.0	\$630.32	\$0.31429	\$95,594.33	\$79,178.70	\$174,773 03		
Ceiling Insulation		295.12	487,270.6	25.0	\$1,020 77	\$0 50898	\$301,249.64	\$248,010 99	\$549,260.63		
Heat Pump		2,391.21	3,989,153.1	15.0	\$775.99	\$0.38693	\$1,855,555.05	\$1,543,523.01	\$3,399,078 06		
Energy Star Regrigerator		71.68	115,308.7	16.0	\$807.38	\$0.40258	\$57,873.00	\$46,420.98	\$104,293 97		
Showerheads		15.10	21,705 7	10.0	\$588.26	\$0 29332	\$8,882.73	\$6,366.72	\$15,249.44		
Water Heater Jacket	+	14.87	25,609.4	7.0	\$446.28	\$0.22253	\$6,636.18	\$5,698 86	\$12,335.04		
Water Heater Pipe Insulation		19.87	34,038.3	13.0	\$707.40	\$0 35273	\$14,056.04	\$12,006.33	\$26,062.37		
Wall Insullation		126.88	212,307.0	25.0	\$1,020.77	\$0 50898	\$129,515.30	\$108,060.02	\$237,575.31		
Energy Star Window		103.05	169,727.2	25.0	\$1,020.77	\$0.50898	\$105,190.35	\$86,387.75	\$191,578.10		
Floor Insulation		5.93	10,220.2	25.0	\$1,020.77	\$0.50898	\$6,053.17	\$5,201.88	\$11,255.04		
Window A/C		0.34	496.0	8.0	\$496.40	\$0.24752	\$168.78	\$122 77	\$291.55		
			. 37	2 3 4 1	S. 35 1	3 1 1	. 1 V				
Hard-to-Reach SOP	\$8,355,831	11,082.95	16,823,965.4				\$9,870,765.25	\$7,639,802.00	\$17,510,567.25	\$9,154,736.25	2.10
Aerators		0.61	1,217.7	10.0	\$588.26	\$0 29332	\$358.84	\$357.18	\$716.01		
Air Infiltration		2,830.20	3,097,557.6	11.0	\$630.32	\$0.31429	\$1,783,931.66	\$973,531.38	\$2,757,463.04		
Ceiling Insulation		6,876.58	11,107,720.3	25 0	\$1,020.77	\$0.50898	\$7,019,406.57	\$5,653,607.48	\$12,673,014.04		
Heat Pump		1,373.29	2,611,660.3	15.0	\$775.99	\$0 38693	\$1,065,659.31	\$1,010,529.72	\$2,076,189.03		
Showerheads		2.10	5,474.7	10.0	\$588.26	\$0.29332	\$1,235.35	\$1,605.84	\$2,841.19		
Energy Star Window		0.17	334.8	25 0	\$1,020.77	\$0.50898	\$173.53	\$170.41	\$343.94		
			75.5	173233		\$# \\$		11.5			
Residential Demand Response MTP	\$1,305,566	24,151.39	144,903 7	1.0	\$75.46	\$0.03763	\$1,822,463.89	\$5,452.73	\$1,827,916.62	\$522,350.62	1 40
<u> </u>					. 3		. 5.86 (8 . E . E	.P		
Home Energy Efficiency SOP	\$16,519.707	26,135.13	44,290,620.0				\$20,901,324.98	\$18,143,919.31	\$39,045,244.29	\$22,525,537 29	2.36
Air Infiltration		7,405.26	8,093,458.5	11 0	\$630 32	\$0.31429	\$4,667,683.48	\$2,543,693.07	\$7,211,376.56		
Ceiling Insulation		5,755.72	10,263,852.0	25.0	\$1,020.77	\$0.50898	\$5,875,266.30	\$5,224,095.39	\$11,099,361.70		
Heat Pump		9,843 25	18,472,951.6	15.0		\$0 38693	\$7,638,263 57	\$7,147,739 16	\$14,786,002.73		
Central A/C		3,046.88	7,300,441.5	18.0		\$0.43128	\$2,635,337.92	\$3,148,534 41	\$5,783,872.33		
Energy Star Window		74.86	132,172.3	25.0		\$0.50898	\$76,414.84	\$67,273.06	\$143,687.90		
Ground Source Heat Pump		9.09	27,361.8	20.0	\$916 13	\$0.45681	\$8,327.62	\$12,499.14	\$20,826.77	<u> </u>	
Water Heater Jacket	<u> </u>	0.07	382.3	7.0	\$446.28	\$0.22253	\$31.24	\$85.07	\$116.31		
			1, 2005			1.11					
Residential Total	\$36,308,034	66,419.30	72,819,025.3				\$37,212,784.06	\$31,350,205.73	\$68,562,989.79	\$32,254,955.79	1.89

	Total Program Costs	kW Saved	kWh Saved	Measure Life - Yrs	kW Avoided Costs	kWh Avoided Costs	Total Avoided Costs kW	Total Avoided Costs kWh	Total Avoided Costs	Net Benefits	Benefit Cost Ratio
Commercial		\$17	\$100 C								,
Commercial SOP (Custom)	\$3,084,224	2,552 31	16,591,708.1				\$2,206,436.70	\$6,776,977.55	\$8,983,414.25	\$5,899,190.25	2.91
Deemed Cooling		288.69	2,319,621.3	15.0	\$775.99	\$0.38693	\$224,020.55	\$897,531 07	\$1,121,551.62		
Deemed Cooling		165.81	246,411.0	20.0	\$916.13	\$0.45681	\$151,903.52	\$112,563.01	\$264,466.52		L
Deemed Cooling		299.79	2,241,111.9	25.0	\$1,020.77	\$0.50898	\$306,016.64	\$1,140,681.13	\$1,446,697.77		
Lighting Controls		117.41	1,283,682.1	10.0	\$588.26	\$0.29332	\$69,067.61	\$376,529.63	\$445,597 24		
Lighting		825.28	6,656,486.3	15.0	\$775.99	\$0.38693	\$640,409 03	\$2,575,594.24	\$3,216,003.27		
Metered Cooling		23.77	-14,894.8	20 0	\$916.13	\$0.45681	\$21,776.41	-\$6,804.09	\$14,972.32		
Motor		169.31	1,956,549.5	15.0	\$775.99	\$0.38693	\$131,382.87	\$757,047.70	\$888,430.56		
Motor/VFD		116.85	737,477.7	15.0	\$775.99	\$0.38693	\$90,674.43	\$285,352.25	\$376,026.68		
Solar PV	1	391.40	1,165,263 1	30.0	\$1,098 88	\$0.54793	\$430,101.63	\$638,482 61	\$1,068,584.24		
Thermal Storage		154.00	0.0	20.0	\$916.13	\$0 45681	\$141,084.02	\$0.00	\$141,084.02		
	, is	3. 3	100000000000000000000000000000000000000	28 5 N			医电子性 國際		2 7 11		•
Commercial Load Management SOP	\$3,129,393	72,060.38	216,181.0	1.0	\$75.46	\$0.03763	\$5,437,676.27	\$8,134.89	\$5,445,811 17	\$2,316,418.17	1.74
	185		a. 1 1 10 10 10 10 10 10 10 10 10 10 10 10	Paris "		0.000	akar ar ja	14 14	. 4.1	` .	
Commercial SOP (Basic)	\$11,318,989	11,381.49	67,247,365.3				\$9,049,132.04	\$27,421,225 54	\$36,470,357.58	\$25,151,368.58	3.22
Deemed Cooling	 	1,517.48	6,588,770.1	15.0	\$775 99	\$0.38693	\$1,177,549.31	\$2,549,392 81	\$3,726,942.12		
Deemed Cooling	1	572.44	2,589,903.7	20.0	\$916.13	\$0.45681	\$524,429.46	\$1,183,093 91	\$1,707,523.37		
Deemed Cooling	<u> </u>	859.92	12,763,833.2	25.0	\$1,020.77		\$877,780 54	\$6,496,535.82	\$7,374,316 36		
Lighting		30.40	158,788.7	16.0	\$807.38	\$0.40258	\$24,544.35	\$63,925 15	\$88,469.51		
Lighting	<u> </u>	7,033.42	38,442,969.0	15.0	\$775 99	\$0.38693	\$5,457,863 59	\$14,874,738 00	\$20,332,601.58		
Lighting	1	227.10	1,550,319.6	9.0	\$543.67	\$0.27109	\$123,467.46	\$420,276.14	\$543,743.60		
Lighting		279.07	1,378,151.9	15.5	\$791.91	\$0.39487	\$220,998.32	\$544,190.84	\$765,189.16		
Lighting Controls		524.22	2,539,347.5	10.0	\$588.26	\$0.29332	\$308,377.66	\$744,841 41	\$1,053,219.07		
Air Handler Control		42.19	692,357 0	15.0	\$775 99	\$0.38693	\$32,739 02	\$267,893 69	\$300,632 71		
Master Metered Apts-Attic Insulation		295.25	542,924 6	25.0	\$1,020.77		\$301,382.34	\$276,337 76	\$577,720.11		
8.48			3 4 4	125	*	91.	, 3, 1, 1				
Solar PV SOP (Commercial)	\$2,873,284	1,488 01	4,917,962 5	30.0	\$1,098 88	\$0.54793	\$1,635,144.43	\$2,694,699 19	\$4,329,843 62	\$1,456,559.62	1.51
- Colai I V Coli (Coliminara)	42,070,201	1,100 01	1,017,002.0	1.64	,	ST 12. 15. 15.	10 - 10 1	55.0	š.,		
Small Business Direct Install MTP	\$2,190,616	1,190.15	7,129,854.4	· · · · · ·		*	\$866,314.78	\$2,605,133.55	\$3,471,448.34	\$1,280,832.34	1.58
Lighting Controls	Ψ2,130,010	0 01	77.1	10.0	\$588.26	\$0.29332	\$5.88	\$22 61	\$28.50	\$1,000,000.00	
Lighting	 	261.05	1,408,644.4	9.0	\$543 67	\$0.27109	\$141,925.05	\$381,869.41	\$523,794.46		
Lighting	· · · · · · · · · · · · · · · · · · ·	714.31	4,516,652 5	15.0	\$775.99	\$0.38693	\$554,297.42	\$1,747,628 35	\$2,301,925.77		
Lighting		214.78	1,204,480.4	15.5	\$791.91	\$0.39487	\$170,086 43	\$475,613.18	\$645,699.61		
righting	 	214.70	1,204,400.4	133	Ψ751.51	\$	4170,000 40	\$47.0,010.10	40.10,000.01		
Healthcare MTP	\$558.697	138.04	1,202,059.90				\$10,416 50	\$45,233.51	\$55,650.01	-\$503,046.99	0.10
Retro-Commission	160,066	138.04	1,202,059.9	10	\$75.46	\$0.03763	\$10,416.50	\$45,233.51	\$55,650.01	\$555,5 15.55	0
 	 	130.04	1,202,059.9	10	\$75.40	\$0.03763	\$10,410.50	\$45,255.51	\$33,030 01		
Commercial Total	\$23,155,203	88,810.38	97,305,131.2				\$19,205,121	\$39,551,404	\$58,756,525	\$35,601,321.97	2.54
Commercial Total	\$23,133,203	88,810.38	97,305,131.2	\$ 10.	4.50 3 6	. 47 %	\$19,205,121	\$39,331,404	\$36,730,323	\$35,001,321.97	2.57
R&D	\$0	1		<u> </u>			100		, '''		***************************************
EM&V	\$0 \$0										
Grand Total	\$59,463,237		170,124,156.5						\$127,319,514.75	\$67,856,277.75	2.14

^{*} Program costs include incentives, administration expenses, R&D, EM&V expenses and performance bonus (less municipal rate case expenses) as shown in column (j) of WP/MRS/6

Avoided Costs are calculated using the present value of Commission-approved initial avoided capicity cost of \$80/kW and initial avoided energy cost of \$0 03989/kWh as stated in Rule § 25 181(d)(2) and (d)(3), and based on measure life, 2% escalation rate and 8.14% discount rate as noted in § Rule 25 181(h)(5)

Contracts Regarding Administrator and/or Service Provider That Received More Than 5% of Overall Incentive Payments

This information is confidential and will be made available only after execution of a certification to be bound by the Protective Order set forth in Attachment B of this Application and delivery of same to Teri Smart, Oncor Electric Delivery Company, LLC, 1616 Woodall Rodgers Frwy, Suite 6A-001, Dallas, TX 75202.

AFFIDAVIT OF ALICIA RIGLER

STATE OF TEXAS §

COUNTY OF TRAVIS §

BEFORE ME, the undersigned authority, personally appeared Alicia Rigler known to me to be the person whose name is subscribed below who, upon oath, deposed and stated as follows:

- 1. My name is Alicia Rigler. I am over 18 years of age, of sound mind and fully competent to make this affidavit. Each statement of fact herein is true and of my own personal knowledge.
- 2. My business address is 600 Congress Avenue, Suite 2000, Austin, Texas 78701.
- 3. I am Manager Project Development for Hunt Power, L.P. Previously, I was employed by Sharyland Utilities, L.P. (Sharyland) as Counsel. In that capacity, I either managed the preparation of or assisted in preparing Sharyland's Energy Efficiency Cost Recovery Factor (EECRF) applications that were filed each year from 2012 through 2017. In 2017, I assisted in preparing Sharyland's EECRF application (Application) filed in Docket No. 47248, and also advised on the processing of Sharyland's Application.
- 4. In 2017, Sharyland retained Eversheds Sutherland (US) LLP (formerly known as Sutherland Asbill & Brennan LLP) (Eversheds Sutherland) and GDS Associates, Inc. (GDS) to assist in preparation of Sharyland's application to the Public Utility Commission of Texas (Commission) to establish an EECRF for 2018. Eversheds Sutherland is Sharyland's outside legal counsel and GDS is Sharyland's outside rate consultant. Eversheds Sutherland also was retained to represent Sharyland in the associated EECRF proceeding before the Commission (Docket No. 47248), and GDS assisted in the proceeding, including with discovery matters, as necessary.
- 5. I am familiar with the Commission's past decisions regarding the types of expenses that are eligible for rate case expense reimbursement. I have also read and considered 16 Texas Administrative Code (TAC) § 25.245, related to the Recovery of Expenses for Ratemaking Proceedings which was adopted by the Commission on July 10, 2014.

- 6. I was a practicing attorney for 14 years. I was employed by Sharyland from 2012 to 2017. Prior to joining Sharyland, I practiced law with the law firms of Eversheds Sutherland, Mayer Brown LLP, and Crowell & Moring, LLP.
- 7. 16 TAC § 25.245 establishes factors that a utility must address and criteria the presiding officer is to use when considering utilities' and municipalities' requests for recovery of or reimbursement for rate case expenses.
- 8. I have based my opinion on the reasonableness and necessity of the rate case expenses incurred in Docket No. 47248 upon consideration of the factors contained in 16 TAC § 25.245, including, (1) the nature, extent, and difficulty of the work done by the attorney or other professional in the rate case; (2) the time and labor required and expended by the attorney or other professional; (3) the fees or other consideration paid to the attorney or other professional for the services rendered; (4) the expenses incurred for lodging, meals and beverages, transportation, or other services or materials; (5) the nature and scope of the rate case, including (a) the size of the utility and number and type of consumers served; (b) the amount of money or value of property or interest at stake; (c) the novelty or complexity of the issues addressed; (d) the amount and complexity of discovery; and (e) the occurrence and length of a hearing; and (6) the specific issue or issues in the rate case and the amount of rate case expenses reasonably associated with each issue. Additionally, to the extent they were not already included as a factor in 16 TAC § 25.245, I also considered the factors from Texas Disciplinary Rule of Professional Conduct (TDRCP) 1.04(b).
- 9. I have personal knowledge of the facts stated in this Affidavit, which are true and correct.

 In my judgment and based upon my professional experience, the opinions stated and conclusions reached in this Affidavit are true, valid, and accurate.
- 10. Sharyland incurred rate case expenses associated with legal services from Eversheds Sutherland in the amount of \$17,754.21 associated with Docket No. 47248. Copies of the invoices received from Eversheds Sutherland are attached to this affidavit as Exhibit A. Two attorneys employed by Eversheds Sutherland performed and billed for legal services in Docket No. 47248. The hourly rates for the two lawyers who performed legal services were as follows: Mr. Jeffrey B. Stuart's hourly rate was \$430 and Mr. John Zerwas' hourly rate was \$390. Additionally, a paralegal employed by Eversheds Sutherland, Ms.

Sarah K. Merrick, also provided services to Sharyland in Docket No. 47248 at an hourly rate of \$155. I have personal knowledge of each of these individuals' expertise and experience based upon the work that Eversheds Sutherland has performed for Sharyland on past utility regulatory matters in which they were also engaged. The hourly rates charged by these individuals are commensurate with their experience, types of cases upon which they have worked, and are within the range of reasonable hourly rates for utility practitioners with comparable experience representing electric utilities before the Commission. In my opinion, the hourly rate for each of these individuals is reasonable. Based upon the scope of work assigned to each of these individuals, their employment was necessary to Sharyland's preparation, prosecution, and defense of its 2017 EECRF case.

- 11. As a relatively small utility, Sharyland has a small regulatory department and in 2017 employed only one in-house attorney for regulatory matters. Therefore, Sharyland relies upon Eversheds Sutherland to provide additional support to the extent that additional legal assistance is necessary. The work performed by Eversheds Sutherland related to assisting with the preparation of the Application for filing, including the review of testimony and exhibits provided as part of the Application. Subsequent to the filing of the Application, Eversheds Sutherland provided services for purposes of responding to discovery, settlement negotiations, and other various tasks. Eversheds Sutherland did not incur any expenses associated with lodging, meals and beverages, or transportation.
- 12. TDRCP 1.04(b) also provides a few additional factors that are not codified in 16 TAC § 25.245. In particular, Part (6) of that rule also contemplates the consideration of the nature and length of the professional relationship with the client. Eversheds Sutherland has represented Sharyland since its formation and has represented Sharyland in rate cases, EECRF proceedings, and various other proceedings at the Commission over the past approximately 19 years. Eversheds Sutherland's familiarity with Sharyland and long-term relationship enable Eversheds Sutherland to efficiently represent Sharyland. Additionally, Part (7) of TDRCP 1.04(b) addresses the experience, reputation, and ability of the lawyer or lawyers performing the services. The lawyers at Eversheds Sutherland have extensive experience representing utilities before the Commission and other regulatory bodies and enjoy an excellent reputation in the utility industry. I am

personally familiar with the work and reputation of the Eversheds Sutherland attorneys that performed work in connection with the Application based on the long-standing relationship that Sharyland has with Eversheds Sutherland.

- 13. Sharyland incurred rate case expenses associated with outside rate consultant expenses from GDS of \$26,576.06. Copies of the invoices received from GDS are attached to this affidavit as Exhibit B. The hourly rates charged for each individual from GDS were as follows: Mr. James E. Striedel's hourly rate was \$255, and Mr. John W. Hutts' hourly rate was \$240. I have personal knowledge of each of these individuals' expertise and experience based upon the work that GDS has performed for Sharyland on past utility regulatory matters in which they were also engaged. The hourly rates charged by these individuals are commensurate with their experience, types of cases upon which they have worked, and are within the range of reasonable hourly rates for rate consultants with comparable experience. In my opinion, the hourly rate for each of these individuals is reasonable. Based upon the scope of work assigned to each of these individuals, their employment was necessary to Sharyland's preparation, prosecution, and defense of its 2017 EECRF case.
- 14. Sharyland is a relatively small electric utility that does not have an in-house rate department, and therefore must rely on outside rate consultants. Any EECRF application requires the development of rates, the preparation of the application, including testimony and exhibits, the processing of the application, responding to discovery, and for purposes of Sharyland's Application, settlement negotiations and the preparation of a settlement agreement. The skills necessary to perform these tasks are of a specialized nature that require experience in developing load research data and rates for utilities. The vast majority of the expenses incurred by Sharyland for the work performed by GDS relate to the preparation of the Application. These tasks must be performed in order to comply with 16 TAC § 25.181. The time and labor expended by Sharyland's rate consultant was in direct response to the requirements necessary to prepare the Application.
- 15. I also believe that it was reasonable for Sharyland to rely on an outside rate consultant to assist with the preparation and processing of the Application. Sharyland is a relatively small electric utility and does not maintain an internal rate department. An EECRF

application requires the development of EECRF rates, thus, it was necessary to hire an outside rate consultant for the services provided by GDS.

- 16. Unlike a general base rate proceeding, an EECRF application is of a limited nature. Therefore, Eversheds Sutherland and GDS did not divide their time entries into further categories. Given the limited scope of Docket No. 47248, I believe that this is reasonable.
- 17. I have reviewed each of the invoices for the work performed by the individuals at Eversheds Sutherland and GDS. For purposes of this evaluation, I also reviewed the procedural history of Docket No. 47248 and certain filings in the docket made available on the Commission's Interchange. As former Counsel for Sharyland, I am personally aware of the nature of the case in Docket No. 47248. The procedural milestones in Docket No. 47248 included:
 - Sharyland's Application, including prefiled Direct Testimony (June 1, 2017);
 - Sharyland's Motion to Admit Evidence and Remand Proceeding (August 23, 2017), which included a Unanimous Stipulation and Settlement Agreement between the parties to Docket No. 47248;
 - Proposed Order placed on Open Meeting agenda (September 7, 2017); and
 - Final Order (September 29, 2017).

Also, Sharyland was served with and responded to discovery requests during the course of Docket No. 47248. Sharyland also participated in several settlement discussions during the course of Docket No. 47248.

18. Based on my review of the Eversheds Sutherland and GDS invoices and the procedural history of Docket No. 47248, and considering the factors listed in 16 TAC § 25.245, I determined the rate case expenses relating to the performance of legal and professional services in Docket No. 47248 were reasonable and necessary. I concluded that the fees paid to, tasks performed by, and time spent on each task by each person employed by Eversheds Sutherland and GDS were neither extreme nor excessive, and there was no duplication of services or testimony. I also concluded that the time spent and services provided by each individual at Eversheds Sutherland and GDS were reasonable after considering the novelty and complexity of the issues addressed; the nature, extent, and difficulty of the work performed; and the amount and complexity of the discovery

propounded on Sharyland and Sharyland's cooperation in responding to such discovery. I also based my conclusion on the determination that none of the proposals made or positions taken by Sharyland lacked a reasonable basis in law, policy, or fact, or requested an extension, modification, or reversal of Commission precedent.

19. In summary, for reasons stated in this Affidavit, I have concluded that the rate case expenses incurred in Docket No. 47248 are reasonable and necessary upon consideration of: (1) the nature, extent, and difficulty of the work done by the attorney or other professional in the rate case; (2) the time and labor required and expended by the attorney or other professional; (3) the fees or other consideration paid to the attorney or other professional for the services rendered; (4) the expenses incurred for lodging, meals and beverages, transportation, or other services or materials; (5) the nature and scope of the rate case, including (a) the size of the utility and number and type of consumers served; (b) the amount of money or value of property or interest at stake; (c) the novelty or complexity of the issues addressed; (d) the amount and complexity of discovery; and (e) the occurrence and length of a hearing; and (6) the specific issue or issues in the rate case and the amount of rate case expenses reasonably associated with each issue. The scope of my analysis also included a review of the invoices and receipts for legal, professional, travel, and miscellaneous expenses. The total amount of reasonable and necessary rate case expenses incurred in Docket No. 47248 that should be recovered as a result of Sharyland's Application is \$44,330.27.

Alicia Rigler

SUBSCRIBED AND SWORN TO BEFORE ME, notary public, on this the <u>l</u> day of

Notary Public, State of Texas

My Commission Expires: 06/27/2018



Exhibit A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202 383 0100 eversheds-sutherland.com

EVERSHEDS SUTHERLAND

Sharyland Utilities, L.P. c/o ADP Accounts Payable Dallas - Regulatory Dallas P.O. Box 3677 Coppell, TX 75019-3677

INVOICE NO. 842134

File No. 16237-0048 June 20, 2017

Matter Name: Energy Efficiency

For legal services rendered through May 31, 2017

TIME AND FEE SUMMARY

Zerwas, JM Merrick, SK 4.40 hours at \$390.00 = 1716.00 7.20 hours at \$155.00 = 1116.00

Total Current Fees

\$2,832.00

Total Current Invoice

\$2,832.00

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: \$42134	Jun 20,	2017	PAGE	2
Detail Time Entries:				
05/26/17 Discussion with C. Flowers regarding testimony exhibits for EECRF update application				
Merrick, SK .30 hours at 155.00 p	er hour.		46.50)
05/30/17 Attention to 2017 EECRF application Zerwas, JM .50 hours at 390.00 pe	r hour.		195.00)
05/30/17 Prepare draft application, testimony a exhibits for EECRF update application; correspondence with C. Flowers regarding				
Merrick, SK 2.90 hours at 155.00 p	_		449.50	0
05/31/17 Review and revise draft 2017 EECRF application, direct testimony, and exh Zerwas, JM 3.90 hours at 390.00 pe			1521.00	0
05/31/17 Attention to testimony exhibits; proof and edit application and testimony;	read			
preparation for mail notice Merrick, SK 4.00 hours at 155.00 p	er hour.		620.00	0
Total Curren	t Fees		\$2,832.	00
Total Current I	invoice		\$2,832.	00

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202-383 0100 eversheds-sutherland.com

Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: 842134

Jun 20, 2017 PAGE

Matter Name: Energy Efficiency

For legal services rendered through May 31, 2017

Total Current Fees

\$2,832.00

Total Current Invoice

\$2,832.00

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IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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Sharyland Utilities, L.P. c/o ADP Accounts Payable Dallas - Regulatory Dallas P.O. Box 3677 Coppell, TX 75019-3677

INVOICE NO. 848161

File No. 16237-0048 August 15, 2017

Matter Name: Energy Efficiency

For legal services rendered through June 30, 2017

TIME AND FEE SUMMARY

Stuart, JB Zerwas, JM Merrick, SK	2.10 hours at \$430.00 13.00 hours at \$390.00 15.00 hours at \$155.00	= 5070.00
	Total Current Fees	\$8,298.00
	Total Current Charges	\$100.00
	Total Current Invoice	\$8,398.00

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FILE NUMB	Utilities, L.P. ER: 16237-0048 O.: 848161	Aug 15	5, 2017	PAGE 2
Detail Ti	me Entries:			
	Review and revise EECRF application; dissame with J. Zerwas Stuart, JB 2.10 hours at 430.00 per			903.00
	Review and revise 2017 EECRF application direct testimony, and attachments; correspondence regarding same; prepare for filing	same		
	Zerwas, JM 5.00 hours at 390.00 per	hour.		1950.00
	Attention to testimony, exhibits and application for EECRF update application finalize and file same	n;		
	Metrick, SK 5.20 hours at 155.00 per	r hour.		806.00
06/02/17	Attention to notice of 2017 EECRF appli Zerwas, JM .30 hours at 390.00 per			117.00
	Prepare and send out notice of EECRF up application Merrick, SK 2.00 hours at 155.00 pe			. 310.00
06/05/22				310.00
	Attention to Order of Referral and new deadlines in Dkt. 47248 Merrick, SK .20 hours at 155.00 pe		•	31.00
	Correspondence with J. Striedel regardi direct testimony; prepare draft proof o notice and draft list of issues	ng		000
	Merrick, SK 1.00 hours at 155.00 pe	r hour.		155.00
•	Attention to recent PUCT orders, draft proposed procedural schedule, and draft proposed list of issues			
	Zerwas, JM 1.10 hours at 390.00 per	hour.		429.00

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: 848161	Aug 15,	2017	PAGE	3
06/07/17 Attention to SOAH Order No. 1 and new deadlines; prepare draft proposed proceschedule				
Metrick, SK .70 hours at 155.00 pe	r hour.		108.50)
06/09/17 Update draft proposed procedural schedu Merrick, SK .30 hours at 155.00 pe			46.50)
06/12/17 Attention to draft proposed list of iss be addressed, draft proposed procedural schedule, and proof of notice; attention correspondence regarding EECRF applicate	on to ion			
Zerwas, JM 3.10 hours at 390.00 per	hour.		1209.00)
06/13/17 Attention to procedural schedule, list issues, proof of notice, Staff's 1st RF correspondence regarding same; phone ca with PUC Staff and OPUC regarding appli	I, and ills	,		
Zerwas, JM .60 hours at 390.00 per	hour.		234.00	0
06/13/17 Attention to discovery request; prepare response to Staff's 1st RFI; prepare prepare notice and list of issues for filing	e draft coof of			
Metrick, SK 1.20 hours at 155.00 pe	er hour.		.186.00	0
06/14/17 Finalize, file and service Proof of Not and List of Issues in Dkt. 47248			124 0	•
Merrick, SK .80 hours at 155.00 pe			124.0	U
06/15/17 Attention to proposed procedural scheducorrespondence regarding same; phone capuc Staff counsel regarding same				
Zerwas, JM 1.10 hours at 390.00 per	hour.		429.0	0
06/15/17 Finalize, file and service Proposed Procedural Schedule in Dkt. 47248 Metrick, SK .70 hours at 155.00 pe	h	•	108.5	^
•			100.3	U
06/19/17 Attention to revised proposed procedura schedule; phone call with PUC Staff to discuss same				
Zerwas, JM .50 hours at 390.00 per	hour.		195.0	0

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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Sharyland Uti FILE NUMBER: INVOICE NO.:	16237-0048	Aug 15,	2017	PAGE	4
fina Stai	pare revised proposed procedural schalize, file and service same; attent if's protective order certifications crick, SK 1.00 hours at 155.00 pe	ion to		155.00	
dead	ention to SOAH Order No. 2 and new llines; attention to new filings crick, SK .50 hours at 155.00 pe	er hour.		77.50	
cori	t responses to Staff's 1st RFI; respondence related to same rwas, JM .30 hours at 390.00 per	hour.		117.00	
serv	ention to new filings; finalize, fil vice response to Staff's 1st RFI rrick, SK 1.20 hours at 155.00 pe			186.00	ı
appi mate prep	end open meeting and review EECRF ication, draft preliminary order, a erials from 2016 EECRF proceeding in paration for open meeting twas, JM 1.00 hours at 390.00 per	n		390.00	
06/30/17 Att	ention to Preliminary Order crick, SK .20 hours at 155.00 pe			31.00	
	Total Current	t Fees	\$	8,298.0	0
Related Charg					
Fir	n Courier ·		100.00		
	Total Current C	harges		\$100.0	00

Total Current Invoice

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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\$8,398.00

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5

Sharyland Utilities, L.P.

FILE NUMBER: 16237-0048

INVOICE NO.: 848161

Matter Name: Energy Efficiency

For legal services rendered through June 30, 2017

Total Current Fees

Aug 15, 2017

\$8,298.00

PAGE

Total Current Charges

\$100.00

Total Current Invoice

\$8,398.00 ===============

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Sharyland Utilities, L.P. c/o ADP Accounts Payable Dallas - Regulatory Dallas P.O. Box 3677 Coppell, TX 75019-3677

INVOICE NO. 850015

File No. 16237-0048 August 31, 2017

Matter Name: Energy Efficiency

For legal services rendered through July 31, 2017

TIME AND FEE SUMMARY

Zerwas, JM Merrick, SK 1.60 hours at \$390.00 = 624.00 4.20 hours at \$155.00 =

651.00

Total Current Fees

\$1,275.00

Total Current Charges

\$136.11

Total Current Invoice

\$1,411.11 ----

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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Sharyland Utilities FILE NUMBER: 16237- INVOICE NO.: 850019	-0048	Aug 31,	2017	PAGE	2
Detail Time Entries	3:				
	to PUC Staff's 2nd set of R 30 hours at 390.00 p			117.00	
	to new discovery requests SK .20 hours at 155.00	per hour.		31.00	
07/06/17 Prepare di RFIs	raft responses to Staff's 2n	d set of			
	SK .40 hours at 155.00	per hour.		62.00	
RFIs; dis	raft responses to Staff's 2n scuss same with C. Flowers SK 1.30 hours at 155.00			201.50	
	d revise draft responses to	•		201.50	
	f RFIs and amended affidavit				
	JM .60 hours at 390.00 p	er hour.		234.00	
	to response to Staff's 2nd pare amended affidavit for R				
	SK .50 hours at 155.00	per hour.		77.50	
	file and service response t	:0			
	SK .90 hours at 155.00	per hour.		139.50	
	d revise draft errata JM .70 hours at 390.00 g	er hour.		273.00)
07/18/17 Finalize affidavit	and file errata to R. Goodle	et			
	SK .90 hours at 155.00	per hour.		139.50	j
1					

Total Current Fees

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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\$1,275.00

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Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: 850015

Aug 31, 2017

PAGE 3

Related Charges:

Copying . Firm Courier Postage 29.00 37.00 70.11

Total Current Charges

\$136.11

Total Current Invoice

\$1,411.11

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

E V E R S H E D S S U T H E R L A N D

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202 383 0100 eversheds-sutherland.com

Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: 850015

Aug 31, 2017 PAGE 4

\$136.11

Matter Name: Energy Efficiency

For legal services rendered through July 31, 2017

Total Current Fees \$1,275.00

Total Current Invoice \$1,411.11

PLEASE RETURN THIS COPY WITH YOUR REMITTANCE.

Total Current Charges

REMITTANCE COPY

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P. c/o ADP Accounts Payable Dallas - Regulatory Dallas P.O. Box 3677 Coppell, TX 75019-3677

INVOICE NO. 853017

File No. 16237-0048 September 27, 2017

Matter Name: | Energy Efficiency

For legal services rendered through August 31, 2017

TIME AND FEE SUMMARY

Zerwas, JM Merrick, SK 8.10 hours at \$390.00 = 3159.00 1.60 hours at \$155.00 = 248.00

Total Current Fees

\$3,407.00

Total Current Charges

\$32.00

Total Current Invoice

\$3,439.00

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

FILE NUMB	Utilities, L.P. BER: 16237-0048 NO.: 853017	Sep 27,	2017	PAGE	2
Detail Ti	me Entries:				
	Phone call with PUC Staff counsel regard EECRF application and potential settleme Zerwas, JM .50 hours at 390.00 per	nt		195.00	
	Attention to settlement and draft motion abate; phone call with PUC Staff to disc settlement				
	Zerwas, JM .50 hours at 390.00 per	hour.		195.00	
08/09/17	Finalize, file and service motion to aba Metrick, SK .40 hours at 155.00 per			62.00	
	Attention to SOAH Order No. 3 Metrick, SK .20 hours at 155.00 per	hour.		31.00	
08/15/17	Phone call with PUC Staff counsel regard settlement Zerwas, JM .30 hours at 390.00 per	_		117.00)
08/16/17	Draft settlement documents for Docket No				
	Zerwas, JM 2.40 hours at 390.00 per	hour.		936.00	١.
08/17/17	Review draft settlement documents and circulate to SU for review; discuss same J. Stuart and PUC Staff	with			
	Zerwas, JM .30 hours at 390.00 per	hour.		117.00	i
08/21/17	Revise draft settlement documents and attention to correspondence regarding saphone call with PUC Staff counsel regard settlement documents Zerwas, JM .70 hours at 390.00 per	ling		273.00	1
08/22/17	Discussions with A. Rigler and B. Headri regarding settlement documents; conduct research regarding over-recoveries and refunds of other TDUs; review the			2,2.00	,

Commissioners' discussion on EECRF

IRS Employer 1D #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P. FILE NUMBER: 16237-0048

Sep 27, 2017

PAGE

INVOICE NO.: 853017

over-recoveries at the August 17 open meeting; phone calls with PUC Staff counsel regarding settlement documents and timing of filing settlement documents; review PUC Staff's revisions to settlement documents;

revise settlement documents

Zerwas, JM 1.90 hours at 390.00 per hour.

741.00

08/23/17 Discuss PUC Staff's edits to settlement documents with A. Rigler and B. Headrick; final review of settlement documents and prepare same for filing; review draft PUC Staff affidavits in support of settlement and discuss same with PUC Staff counsel

Zerwas, JM 1.50 hours at 390.00 per hour.

585.00

08/23/17 Finalize, file and service settlement documents

Merrick, SK

.80 hours at 155.00 per hour.

124.00

08/29/17 Correspondence with C. Flowers regarding final testimony and schedules in Dkt. 47248

.20 hours at 155.00 per hour. Merrick, SK

31.00

Total Current Fees

\$3,407.00

Related Charges:

Firm Courier

32.00

Total Current Charges

\$32.00

Total Current Invoice

\$3,439.00

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: 853017

Sep 27, 2017

PAGE 4

Matter Name: Energy Efficiency

For legal services rendered through August 31, 2017

Total Current Fees

\$3,407.00

Total Current Charges

\$32.00

Total Current Invoice

\$3,439.00

PLEASE RETURN THIS COPY WITH YOUR REMITTANCE.

REMITTANCE COPY

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

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Sharyland Utilities, L.P. c/o ADP Accounts Payable Dallas - Regulatory Dallas P.O. Box 3677 Coppell, TX 75019-3677

INVOICE NO. 858370

File No. 16237-0048 November 14, 2017

Matter Name: Energy Efficiency

For legal services rendered through September 30, 2017

TIME AND FEE SUMMARY

Zerwas, JM Merrick, SK	2.70 hours at \$390.00 = 1.10 hours at \$155.00 =	1053.00 170.50
· [Total Current Fees	\$1,223.50
	Total Current Charges	\$19.70
	Total Current Invoice	\$1,243.20

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

FILE NUME	H Utilities, L.P. BER: 16237-0048 NO.: 858370	Nov 14,	2017	PAGE	2
Detail Ti	ime Entries:				
09/01/17	Correspondence with C. Flowers regarding Headrick testimony in EECRF update docke Merrick, SK .20 hours at 155.00 per	ts		31.00	
09/07/17	Attention to letter from S. Journeay and proposed order filed in Dkt. 47248; prepredline of proposed order Metrick, SK .50 hours at 155.00 per	are		77.50	
09/08/17	Attention to draft proposed order filed			77.50	
	Docket No. 47248 Zerwas, JM .40 hours at 390.00 per			156.00	١
09/14/17	Attention to draft affidavit to be filed Docket No. 47248 (related to swap transa proposed in Docket No. 47469); discussion with PUCT counsel regarding same Zerwas, JM .50 hours at 390.00 per	action ons		195.00	
09/18/17	Review 2017 EECRF application and relate filings in anticipation of September 28 Meeting; confer with J. Guy on EECRF iss	ed Open		193.00	
	Zerwas, JM .50 hours at 390.00 per	hour.		195.00)
09/21/17	Preparation for September 28 Open Meetir Zerwas, JM 1.00 hours at 390.00 per	-		390.00)
09/21/17	Provide reference materials for J. Stuar L. Mendiola in preparation for upcoming Open Meeting				
	Merrick, SK .40 hours at 155.00 per	r hour.		62.00)
09/25/17	Preparation for September 28 Open Meeting draft mock open meeting questions and ar Zerwas, JM .30 hours at 390.00 per	nswers		117.00)
	Total Current	Fees		\$1,223.5	50

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P.

FILE NUMBER: 16237-0048

INVOICE NO.: 858370

Related Charges:

Copying

Nov 14, 2017

PAGE

3

19.70

Total Current Charges

\$19.70

Total Current Invoice

\$1,243.20

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: 858370

Nov 14, 2017

PAGE 4

Matter Name: Energy Efficiency

For legal services rendered through September 30, 2017

Total Current Fees

\$1,223.50

Total Current Charges

\$19.70

Total Current Invoice

\$1,243.20

PLEASE RETURN THIS COPY WITH YOUR REMITTANCE.

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IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P. c/o ADP Accounts Payable Dallas - Regulatory Dallas P.O. Box 3677 Coppell, TX 75019-3677

INVOICE NO. 859507

File No. 16237-0048 November 17, 2017

Matter Name: Energy Efficiency

For legal services rendered through October 31, 2017

TIME AND FEE SUMMARY

Zerwas, JM 0.30 hours at \$390.00 = Merrick, SK 2.00 hours at \$155.00 =

117.00 310.00

Total Current Fees

\$427.00

Total Current Charges

\$3.90

Total Current Invoice

\$430.90

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P. FILE NUMBER: 16237-0048 INVOICE NO.: 859507	Nov 17, 20)17 PAGE 2	:
Detail Time Entries:			
10/05/17 Attention to draft compliance tariff f Zerwas, JM .30 hours at 390.00 pe		117.00	
10/05/17 Attention to new filings; prepare cleatariffs to be stamped "Approved" Merrick, SK .60 hours at 155.00 p		93.00	
10/09/17 Finalize and file clean copy tariffs to stamped "Approved" in Dkt. 47248 Merrick, SK .70 hours at 155.00 p		108.50	
10/23/17 Correspondence with PUC regarding stam "Approved" tariff sheets Merrick, SK .20 hours at 155.00 p	-	31.00	
10/26/17 Update master tariff manuals with rate approved in Dkt. 47248; correspondence C. Flowers regarding same			
Merrick, SK .50 hours at 155.00 p	per hour.	77.50	
Total Curren	nt Fees	\$427.00	
Related Charges:			•
Copying		3.90	
Total Current	Charges	\$3.90	
Total Current	Invoice	\$430.90	

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Eversheds Sutherland (US) LLP 700 Sixth Street, NW, Suite 700 Washington, DC 20001-3980 T: +1 202.383.0920 eversheds-sutherland.com

Sharyland Utilities, L.P. FILE NUMBER: 16237-0048

Nov 17, 2017

PAGE 3

INVOICE NO.: 859507

Matter Name: |Energy Efficiency

For legal services rendered through October 31, 2017

Total Current Fees

\$427.00

Total Current Charges

\$3.90

Total Current Invoice

\$430.90

PLEASE RETURN THIS COPY WITH YOUR REMITTANCE.

REMITTANCE COPY

IRS Employer ID #: 58-0619407

Wire transfer instructions: SunTrust Bank Routing #: 061000104 Account #: 1000002870631 Swift: SNTRUS3A

Exhibit B





1850 Parkway Place Suite 800 Matietto, Georgia <u>30067</u>

INVOICE

770.425.9100 Fax 866.611.3791 Fed. EIN 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable Sharyland P.O. Box 3677

Coppell, TX 75019-3677

INVOICE NO: 0147899

DATE: Apr 10, 2017

CLIENT CODE: 0044833

PROJECT NO: 0048

Hours Amount ASSIST WITH THE PREPARATION OF THE 2017 PUC ENERGY EFFICIENCY 1/30/17 James E. Striedel -0.50127.50 Respond to 2017 EECRF Program Allocation Question (.5 M) 1.25 318.75 2/22/17 James E. Striedel Kick-off Call for 2017 Sharyland EEPR & EECRF and Follow-up (1.25 W) 0.50 127.50 3/17/17 James E. Striedel Preparation of 2016/17 EECRF Over/Under Recovery (.5 F) James E. Striedel 3/20/17 3.50 892.50 Preparation of 2018 EERCRF (3.5 M) 3/22/17 James E. Striedel 5.00 1,275.00 Preparation of Sharyland 2016/17 EECRF Over/Under Recovery (5 W) 3/23/17 James E. Striedel 0.50 127.50 Preparation of Sharyland EECRF/EEPR (.5 Th) 3/24/17 James E. Striedel 3.75 956.25 Preparation of the Sharyland 2016 EECRF Over/Under Recovery (3.75 F) 3.25 3/27/17 James E. Striedel 828.75 Preparation of the Sharyland PY 2016 EECRF Over/Under Recover for the EEPR (3.25 M) 4.25 1,083.75 3/28/17 James E. Striedel Sharyland EECRF Calculations for EEPR (4.25 Tu) 3/29/17 James E. Striedel 1.75 446.25 Preparation of Sharyland EEPR - Estimated 2018 EECRF Rate Design (1.75 W) 3/30/17 James E. Striedel 0.25 63.75 Preparation of Sharyland EEPR (.25 Th) 8.00 3/30/17 John W. Hutts 1,920.00 Assisted in preparation of 2017 EEPR TOTAL FEES: 8,167.50 SHORETEL PHONE BILL-MARCH Long-Distance Telephone 2.10

TOTAL EXPENSES:

2.10





1850 Parkway Place Suite 800 Marietta, Georgia 30067

INVOICE

770 425.8100 Fax 866.611.3791 Fed. EIN 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable

Sharyland P.O. Box 3677

Coppell TX 75019-3677

INVOICE NO: 0147899

DATE: Apr 10, 2017

CLIENT CODE: 0044833 PROJECT NO: 0048

Hours

Amount

TOTAL AMOUNT DUE:

8,169.60

PAYMENT DUE WITHIN 30 DAYS OF RECEIPT PLEASE MAKE CHECKS PAYABLE TO GDS ASSOCIATES, INC.

gnet

Page 1 of 1

MENU FAVORTES JOURNAL EXPENSE OUTLOOK SHAREPOINT PROFILE IT SUPPORT SEARCH...

telephone ← March 2017 →

Details for 44	833-048	
Call Time (East	ern) Επ	nplayee

Call Time (castern)	mpioyee	Diales Number	Millings	COSI
03/21/2017 05:50 PM	2154 - Striedel, James	+14328941851	1	\$0.06
03/21/2017 05:52 PM	2154 - Striedel, James	+12148556103	3	\$0.18
03/29/2017 01:06 PM	2154 - Striedei, James	+14328941851	1	\$0.06
03/29/2017 01;17 PM	2154 - Striedel, James	+14328941851	2	\$0.12
03/30/2017 02:07 PM	1112 - Hutts, John	+12148556103	20	\$1.20
03/30/2017 02:51 PM	1112 - Hutts, John	+12148556103	1	\$0.06
03/30/2017 04:25 PM	1112 - Hutts, John	+12148556103	7	\$0.42
Total			35	\$2.10
	- T			

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INVOICE

770 425,8100 Fax 866,611,3791 Fed, EIN 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable

Sharyland P.O. Box 3677

Coppell TX 75019-3677

INVOICE NO: 0149550 DATE: May 11.2

DATE: May 11, 2017 CLIENT CODE: 0044833

PROJECT NO: 0048

	,	Hours	Amount
ASSIST W	ITH THE PREPARATION OF		
	PUC ENERGY EFFICIENCY		
4/7/17	James E. Striedel	0.50	127.50
	Preparation of Sharyland 2018 EECRF Rate Design (.5 F)		
4/13/17	John W. Hutts	2.00	480.00
	Preparation of 2017-2019 projections for EEPR		
	Discussions with SU staff		
4/17/17	John W. Hutts	1.00	240.00
	Analysis of opt-out data provided by SU.		
4/18/17	John W. Hutts	2.00	480.00
	Analysis of opt-out data provided by SU. Discussions with Alicia regarding customer migrations study.		
4/27/17	James E. Striedel	1.00	255.00
	Preparation of the 2018 Sharyland EECRF Calculations (1 Th)		
4/27/17	John W. Hutts	4.00	960.00
	Analysis of EECRF consumption and preparation of EECRF consumption forecast.		
4/28/17	James E. Striedel	3,50	892.50
	Prepare Sharyland 2018 EECRF Rate Design (3.5 F)		
	TOTAL FEES:	-	3,435.00

TOTAL AMOUNT DUE:

3,435.00

PAYMENT DUE WITHIN 30 DAYS OF RECEIPT PLEASE MAKE CHECKS PAYABLE TO GDS ASSOCIATES, INC.







1850 Parkway Place Suite 800 Morietta, Georgia 30067

INVOICE

770.425.8100 Fax 866.611.3791 Fed, EIN 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable Sharyland

P.O. Box 3677

Coppell, TX 75019-3677

DATE:

0150197

CLIENT CODE:

INVOICE NO:

Jun 02, 2017 0044833

Amount

PROJECT NO:

Hours

0048

ASSIST WITH THE PREPARATION OF THE 2017 PHIC ENERGY EFFICIENCY

THE 2017	PUC ENERGY EFFICIENCY		
5/1/17	James E. Striedel	0.50	127.50
	Preparation of 2018 Sharyland EECRF Rate Design (.5 M)		
5/2/17	James E. Striedel	3.50	892.50
	Preparation of Sharyland EECRF Rate Design (3.5 Tu)		
5/3/17	John W. Hutts	1.00	240.00
	Teleconference with SU staff		
5/4/17	James E. Striedel	0.50	127.50
	Preparation of Sharyland 2018 EECRF Rate Design (.5 Th)		
5/5/17	James E. Striedel	2.75	701.25
	Reviewing Updated Sharyland KWh Data (.75 F) Prepare Sharyland 2018 EECRF Rate Design (2 F)		
5/5/17	John W. Hutts	3.00	720.00
	Revised Table 4 and monthly load forecast based on updated data from SU		
5/8/17	James E. Striedel	0.25	63.75
	Reviewing Updated Load Data for 2018 Sharyland EEPR (.25 M)		
5/8/17	John W. Hutts	1.00	240.00
	Teleconference with SU staff. Analysis of exempt/non-exempt consumption.		
5/9/17	John W. Hutts	1.00	240.00
	Teleconference with SU staff. Analysis of exempt/non-exempt consumption. Revised inputs for EEPR filing.		
5/10/17	James E. Striedel	0.25	63.75
	Preparation of Sharyland 2018 EECRF Rate Design (.25 W)		
5/10/17	John W. Hutts	1.00	240.00
	Teleconference with SU staff. Analysis of exempt/non-exempt consumption. Revised inputs for EEPR filing.		
5/11/17	John W. Hutts	4.00	960.00
	Teleconference with SU staff. Analysis of exempt/non-exempt consumption. Revised inputs for EEPR filing.		
5/12/17	James B. Striedel	0.25	. 63.75
	Preparation of Sharyland 2018 EERCR Rate Design (.25 F)		
5/12/17	John W. Hutts	1.00	240.00











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SHARYLAND UTILITIES, LP c/o ADP Accounts Payable Sharyland

P.O. Box 3677

Coppell TX 75019-3677

INVOICE NO: 0150197 DATE: Jun 02, 2017 CLIENT CODE: 0044833 PROJECT NO: 0048

			Hours	Amount
	Updated energy fo	recast for EECRF determination.		
5/15/17	James E. Striede	1	2.00	510.00
	Preparation of Sha	ryland 2018 EECRF Rate Design (2 M)		
5/16/17	James E. Striede	1	3.00	765.00
	2018 Sharyland E	ECRF Rate Design (3 Tu)		
5/17/17	John W. Hutts		1,00	240.00
	Discussions with 1	Bridget re EEPR Table 4		
5/18/17	James E. Striede	1	4.50	1,147.50
	Preparation of Sha	aryland 2018 EECRF Rate Design (4.5 Th)		
5/19/17	James E. Striede	i e	6.75	1,721.25
	Sharyland 2018 E	ECRF Rate Design (6.75 F)		
5/19/17	John W. Hutts		1.00	240.00
	Edits to J. Striede	testimony; teleconference		
5/22/17	James E. Striede	d.	1.25	318.75
	Sharyland EECRI	Rate Design (1.25 M)		
5/23/17	James E. Striede	d.	1.25	318.75
_	Preparation of Sha	aryland 2018 EECRF Rate Design (1.25 Tu)		
5/23/17	John W. Hutts		1.00	240.00
	Additional analysi	s regarding demand goal calculation		
5/24/17	James E. Striede	1	5.00	1,275.00
	Preparation of 201	8 EECRF Rate Design (5 W)		
5/24/17	John W. Hutts		2.00	480,00
	Updates to forecas	t file and data used for EECRF rate computation		
5/25/17	James E. Striede	1	4.25	1,083.75
	Preparation of She	ryland 2018 EECRF Rate Design and Testimony (4.25 Th)		
5/26/17	James E. Striede	7	1.75	446.25
	Preparation of She	ryland 2018 EECRF Rate Design (1.75 F)		
5/26/17	John W. Hutts		1.00	240.00
	Review of EEPR	calculations; communications with client		
		TOTAL FEES:	_	13,946.25
Tana Dist	maa Talombaaa	JSS VISA CONFERENCE CALL		•
rong-Dista	ance Telephone	Job vida Conference Call		4.67





- 1850 Parkway Place Suite BOD - Marietta, Georgia (30067)

INVOICE

Fax 866.611 3791 Fed. EIN 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable

Sharyland P.O. Box 3677

Coppell, TX 75019-3677 ALICIA RIGLER INVOICE NO: 0150197

DATE: Jun 02, 2017

CLIENT CODE: 0044833 PROJECT NO: 0048

Hours

Amount

Long-Distance Telephone

SHORETEL PHONE BILL-MAY

TOTAL EXPENSES:

0.54

5.21

TOTAL AMOUNT DUE:

<u>13,951.46</u>

PAYMENT DUE WITHIN 30 DAYS OF RECEIPT PLEASE MAKE CHECKS PAYABLE TO GDS ASSOCIATES, INC.







1850 Parkway Place Suite 800 Harretta, Georgia 30067 INVOICE

770 425 8100 Fax 866 611 3791 Fed FIN 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable

Sharyland P.O. Box 3677

Coppell TX 75019-3677

INVOICE NO: DATE: 0151125

CLIENT CODE:

Jul 10, 2017

0044833

PROJECT NO: 0048

		Hours	Amount
	VITH THE PREPARATION OF PUC ENERGY EFFICIENCY		
5/27/17	James E. Striedel	1.75	446,25
	Preparation of Sharyland 2018 EECRF Rate Design & Testimony (1.75 Sa)		
5/30/17	James E. Striedel	1.50	382.50
	Sharyland 2018 EECRF Rate Design (1.5 Tu)		
6/1/17	James E. Striedel	0.25	63.75
	Finalize Sharyland 2018 EECRF Testimony (.25 Th)		
6/15/17	James E. Striedel	0.25	63.75
	Sharyland 2018 EECRF Hearing Scheduling (.25 Th)		
	TOTAL FEES:	-	956.25

TOTAL AMOUNT DUE:

956.25

PAYMENT DUE WITHIN 30 DAYS OF RECEIPT PLEASE MAKE CHECKS PAYABLE TO GDS ASSOCIATES, INC.







1859 Parkway Place Suite 600 Marietta, Geo.gia 30067

INVOICE

770 425 8100 Fax 8G6 611 3791 Fed EIN 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable

Sharyland P.O. Box 3677

Coppell TX 75019-3677

INVOICE NO: 0153350

DATE:

CLIENT CODE:

Sep 25, 2017 0044833

PROJECT NO:

0048

Hours Amount

ASSIST WITH THE PREPARATION OF THE 2017 PUC ENERGY EFFICIENCY

8/9/17 James E. Striedel

0.25

63.75

Review the Settlement of the 2018 Sharyland EECRF Case (.25 W)

TOTAL FEES:

63.75

TOTAL AMOUNT DUE:

63.75

PAYMENT DUE WITHIN 30 DAYS OF RECEIPT PLEASE MAKE CHECKS PAYABLE TO GDS ASSOCIATES, INC.









1850 Parkway Place Suite 800 Marietta, Georgia 30067

INVOICE

7/0 425 8100 Fax 866 611 3791 Fed El'V 58-1659843

SHARYLAND UTILITIES, LP c/o ADP Accounts Payable Sharyland P.O. Box 3677 Coppell, TX 75019-3677 ALICIA RIGLER

INVOICE NO: 0153784

DATE: Oct 10, 2017

CLIENT CODE: 0044833

PROJECT NO: 0048

		Hours	Amount
ASSIST V	WITH THE PREPARATION OF		
THE 201	7 PUC ENERGY EFFICIENCY		
8/30/17	James E. Striedel	1.00-	255:00
	Finding 2015 Shalyland EECRF Testimony (1-W)		
9/8/17	James E. Striedel	0.50	127.50
	Review of 2018 Sharyland EECRF Settlement Order (.5 F)		
	TOTAL FEES:		382.50

TOTAL AMOUNT DUE:

382.50

PAYMENT DUE WITHIN 30 DAYS OF RECEIPT
PLEASE MAKE CHECKS PAYABLE TO GDS ASSOCIATES, INC.



INDEX TO THE DIRECT TESTIMONY OF J. MICHAEL SHERBURNE, WITNESS FOR ONCOR ELECTRIC DELIVERY COMPANY LLC

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DIRECT TESTIMONY OF J. MICHAEL SHERBURNE

I. POSITION AND QUALIFICATIONS

- Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT EMPLOYMENT POSITION.
 - A. My name is J. Michael Sherburne. My business address is 1616 Woodall Rodgers Freeway, Dallas, Texas, 75202-1234. I am Senior Director Rates & Financial Analysis for Oncor Electric Delivery Company LLC ("Oncor" or "Company").
 - Q. PLEASE DISCUSS YOUR EDUCATIONAL BACKGROUND AND PROFESSIONAL QUALIFICATIONS.
 - I graduated from Louisiana State University in December 1979 with a Bachelor of Science degree in Electrical Engineering. In August 1989, I received a Master of Business Administration degree from the University of Dallas. I began employment with Dallas Power & Light Company ("DP&L"), in June 1980 as an Engineer, Jr. in the Research and Development Section of the Distribution Department where I was responsible for testing and evaluating new equipment and technologies for application on the distribution system and analyzing the root cause for equipment failures on the distribution system. In June 1984, I was named Section Head - Overhead and Underground Operations in the DP&L Distribution Department. In that role, I was responsible for a group of distribution operation technicians that located underground cable faults, transformer overloads, and arranged for clearances (planned outages) in the downtown Dallas network and surrounding areas that enabled the Company and customers to perform necessary maintenance and/or add additional load to the system. In April 1986, I was named Senior Engineer in the DP&L Distribution Design Division of the Engineering Department where, among other things, I worked to standardize the line extension policy for the three electric operation divisions of Texas Utilities Electric Company and began working on a remote meter reading system for a high

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1 rise apartment complex in Dallas. In December 1987, I was named 2 Manager, Facilities Management for DP&L and became responsible for 3 the construction, operation, and maintenance of DP&L office facilities. 4 continued that responsibility until February 1991, when I was named to the 5 position of Rates and Cost Analysis Manager for Texas Utilities Electric 6 Company. In that role, I had responsibility for interpreting and 7 administering the Company's Tariff for Electric Service, determining the 8 appropriate rate class cost allocation methodology for the Company's rate 9 class cost of service, and reviewing and participating in rulemakings at the 10 Public Utility Commission of Texas ("Commission"). In May 1999, I was 11 named Electric Rates Manager - TXU Business Services and became the 12 Company's advocate in virtually all of the rulemakings associated with the 13 opening of the retail electricity market in the Electric Reliability Council of 14 Texas ("ERCOT"). I participated in countless workshops dealing with the unbundling rules, especially the creation of the Pro Forma Tariff for Retail 15 16 Delivery Service (Substantive Rule 25.241). Subsequent to the opening of 17 the retail market in Texas, I continued to represent the Company in rate and regulatory proceedings at the Commission. In February 2008, I was 18 named Director - Rates and Retail Regulation for Oncor, and in April, 19 20 2009, I was named to my current position of Senior Director - Rates & Financial Analysis for Oncor. 21

- Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE COMMISSION?
- A. Yes. Please see Exhibit JMS-1 for a list of the Commission proceedings in which I have provided testimony.

II. PURPOSE OF DIRECT TESTIMONY

- Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?
- A. The purpose of my direct testimony is to: (1) provide background on Oncor's recovery of energy efficiency program costs in calendar year 2017; (2) describe and support the methodology used to develop the proposed energy efficiency cost recovery factor ("EECRF") charges to

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1 recover the proposed 2019 energy efficiency costs pursuant to 16 Tex. 2 Admin. Code ("TAC") § 25.181 ("Rule 25.181"); (3) describe and support 3 the methodology used to allocate Oncor's 2017 earned energy efficiency performance bonus to the energy efficiency rate classes; (4) describe and 4 5 support the methodology used to allocate the EECRF proceeding 6 expenses incurred in 2017 to the energy efficiency rate classes; (5) 7 describe and support the process Oncor used to exempt industrial 8 distribution voltage customers from EECRF charges; (6) describe and 9 support the calculation of the line loss factor used in determining Oncor's 10 energy efficiency goals; and (7) support Oncor's proposed adjustments to 11 its Rider EECRF - Energy Efficiency Cost Recovery Factor. For more 12 information related to the Company's proposed 2019 EECRF, please refer 13 to the direct testimony of Oncor witness Mr. Michael R. Stockard. In addition, I will address how the transfer of assets between Oncor and 14 15 Sharyland (including regulatory assets/liabilities) affect the calculation of 16 Oncor's 2019 EECRF factors. See Joint Report and Application of Sharyland Utilities, L.P., Sharyland Distribution & Transmission Services, 17 18 L.L.C., and Oncor Electric Delivery Company LLC for Transfer of Facilities, Transfer of Rights Under and Amendment of Certificates of 19 20 Convenience and Necessity, and for Other Regulatory Approvals, Docket No. 47469, Order at Findings of Fact 42(k) (October 13, 2017). 21

III. RECOVERY OF ENERGY EFFICIENCY PROGRAM COSTS

- Q. HOW WERE COSTS ASSOCIATED WITH ENERGY EFFICIENCY PROGRAMS RECOVERED IN 2017?
- A. Oncor recovered energy efficiency costs in 2017 through EECRF factors approved by the Commission in Docket Nos. 46013 and 44784¹. Please refer to my WP/JMS/1 for the energy efficiency revenues recovered in 2017 through these EECRF factors.

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¹ Docket No. 44784 effective March 1, 2016 through February 28, 2017. Docket No. 4601β effective March 1, 2017 through February 28, 2018.

Sharyland recovered energy efficiency costs in 2017 through EECRF factors approved by the Commission in Docket No. 46024. See Application of Sharyland Utilities, L.P. to Adjust Its Energy Efficiency Cost Recovery Factor and For Related Relief, Docket No. 46024, Order (November 14, 2016). Please refer to my WP/JMS/1 for the energy efficiency revenues recovered in 2017 through these EECRF factors.

Q WHY IS ONCOR REQUESTING AN EECRF FOR 2019?

A. Oncor is requesting an EECRF for 2019 in compliance with Rule 25.181(f)(8), which provides as follows: "Not later than June 1 of each year, a utility in an area in which customer choice is offered shall apply to adjust its EECRF effective March 1 of the following year."

IV. CALCULATION OF THE AMOUNT TO BE RECOVERED BY ENERGY EFFICIENCY RATE CLASSES THROUGH THE 2019 EECRF

- Q. HOW IS: THE AMOUNT TO BE RECOVERED THROUGH ONCOR'S PROPOSED 2019 EECRF DETERMINED?
- A. The methodology used to determine the amount to be recovered through the EECRF is specified in Rule 25.181(f) and is described in the direct testimony of Oncor witness Mr. Michael R. Stockard. Oncor's proposed 2019 EECRF is designed to include the forecasted costs of the 2019 program year (including applicable evaluation, measurement, and verification costs), the overall under-recovery of actual 2017 energy efficiency costs for both Oncor and Sharyland, Oncor's earned energy efficiency performance bonus for 2017 program year achievements, and the EECRF proceeding expenses incurred in 2017 for both municipalities served by Oncor and Sharyland. The total amount requested for recovery through the 2019 EECRF is \$58,223,059 as shown on my Exhibit JMS-4.
 - Q. PLEASE DESCRIBE HOW THE 2019 ENERGY EFFICIENCY PROGRAM COSTS, BY ENERGY EFFICIENCY RATE CLASS, WERE DERIVED.
- A. Oncor witness Mr. Stockard assigned the energy efficiency program costs for 2019 at the rate code level. Mr. Stockard then aggregated these

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1	program costs to the energy efficiency rate class level as shown in his
2	Exhibit MRS-4. I verified that the energy efficiency rate class aggregation
3	from rate code was properly conducted.

- Q. WAS THERE AN OVERALL UNDER-RECOVERY OF 2017 ENERGY
 EFFICIENCY PROGRAM COSTS BY ONCOR AND SHARYLAND?
- A. Yes. The combined overall under-recovery of \$37,177 for Oncor and Sharyland in the 2017 program year is shown on WP/JMS/2 page 3, column (h).
- 9 Q. PLEASE DESCRIBE HOW THE (OVER)/UNDER-RECOVERY OF 2017
 10 ENERGY EFFICIENCY PROGRAM COSTS, BY ENERGY EFFICIENCY
 11 RATE CLASS, WAS DERIVED.
- A. Pursuant to FoF 46 in the Final Order in Docket No. 47469 dated October 13, 2017, Oncor will describe and show the (over)/under recoveries separately for Oncor and Sharyland, and then combine them for determination of a single Oncor EECRF.

The amount of (over)/under-recovery for 2017 by energy efficiency rate class was calculated by subtracting the revenues collected through the EECRF factors effective in 2017 adjusted to remove the 2015 performance bonus amount (if any), the 2015 (over)/under-collection amount, and the EECRF proceeding expense incurred in 2015 from the actual 2017 energy efficiency program expenses.

- Q. PLEASE DESCRIBE THE DETAILS OF THE DETERMINATION OF ONCOR'S (OVER)/UNDER RECOVERY OF 2017 ENERGY EFFICIENCY PROGRAM COSTS.
- A. The Oncor energy efficiency revenues for 2017 were aggregated to the energy efficiency rate class level from Company's books and records as reflected in WP/JMS/2 page 1, column (d).

Oncor witness Mr. Stockard identified the actual Oncor energy efficiency program expenses by rate code for 2017 as described in his direct testimony. The actual 2017 energy efficiency program expenses

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- were then aggregated to the energy efficiency rate class level as shown in his Exhibit MRS-2 and my WP/JMS/2 page 1, column (c). The 2015 performance bonus and 2015 (over)/under-recovery were taken from Docket No. 46013 and are shown on WP/JMS/2 page 1, columns (e) and (g), respectively. The EECRF proceeding expense incurred in 2015 is for the prosecution of Docket No. 44784, Oncor's 2016 EECRF filing.
- Q. PLEASE DESCRIBE THE DETAILS OF THE DETERMINATION OF SHARYLAND'S (OVER)/UNDER RECOVERY OF 2017 ENERGY EFFICIENCY PROGRAM COSTS.
- 10 A. The Sharyland energy efficiency revenues for 2017 were aggregated to the rate class level from the Company's books and records as reflected in WP/JMS/2 page 2, column (d).

Oncor witness Mr. Stockard identified the actual Sharyland energy efficiency program expenses by Sharyland rate class for 2017 as described in his direct testimony and as shown in his WP/MRS/8 page 1, column (d) and my WP/JMS/2 page 2, column (c). Sharyland did not seek a 2015 performance bonus as shown on WP/JMS/2 page 2, column (e). The 2015 (over)/under-recovery for Sharyland was taken from Docket No. 46024 and is shown on WP/JMS/2 page 2, column (g). The EECRF proceeding expense incurred in 2015 is for the prosecution of Docket No. 44788, Sharyland's 2016 EECRF filing.

- Q. PLEASE DESCRIBE THE HOW THE COMBINED (OVER)/UNDER RECOVERIES OF 2017 ENERGY EFFICIENCY PROGRAM COSTS FOR ONCOR AND SHARYLAND WERE CALCULATED.
- A. Each component of the (over)/under recovery calculation for Oncor and Sharyland were summed together as shown in WP/JMS/2 page 3. The 2017 (over)/under-recovery as shown in WP/JMS/2 page 3, column (h) (and reflected in Exhibit JMS-4, column (b)) was then calculated by subtracting the actual 2017 energy efficiency revenues (column (d)) adjusted for the 2015 performance bonus (column (e)), the 2015

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(over)/under-recovery (column (g)) and the EECRF proceeding expenses incurred in 2015 (column (f)) from the 2017 actual energy efficiency program costs (column (c)).

V. ALLOCATION OF THE EARNED 2017 ENERGY EFFICIENCY PERFORMANCE BONUS

- Q. DID ONCOR EARN AN ENERGY EFFICIENCY PERFORMANCE
 BONUS BASED ON THE RESULTS OF ITS 2017 ENERGY EFFICIENCY
 PROGRAMS?
- 9 A. Yes. Rule 25.181(h) states that a "utility that exceeds its demand and energy reduction goals established in this section at a cost that does not exceed the cost caps established in subsection (f)(7) of this section shall be awarded a performance bonus...." Details of how Oncor exceeded its demand and energy reduction goals without exceeding the applicable cost caps, thus qualifying for a performance bonus, are described in Mr. Stockard's direct testimony.
- 16 Q. WHAT IS THE AMOUNT OF THE 2017 ENERGY EFFICIENCY
 17 PERFORMANCE BONUS EARNED BY ONCOR AND HOW WAS IT
 18 DETERMINED?
- 19 A. Under Rule 25.181(h), Oncor earned a \$7,774,182 energy efficiency 20 performance bonus for its 2017 program year achievements as shown on 21 Exhibit MRS-3, page 3. Oncor is requesting to recover this earned 22 performance bonus of \$7,774,182 through the 2019 EECRF. Mr. 23 Stockard's direct testimony provides further explanation of the calculation 24 of Oncor's earned performance bonus.
- Q. PLEASE DESCRIBE THE METHODOLOGY USED BY ONCOR TO
 ALLOCATE THE EARNED 2017 PERFORMANCE BONUS TO THE
 ENERGY EFFICIENCY RATE CLASSES.
- A. Oncor is proposing to use allocation factors based on the actual 2017 energy efficiency program costs by energy efficiency rate class. The 2017 performance bonus allocation for each energy efficiency rate class is

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- calculated by multiplying the earned performance bonus amount of \$7,774,182 (column (a) of Exhibit JMS-2) by the allocation factor for each energy efficiency rate class (column (c) of Exhibit JMS-2). The performance bonus allocation factors are the ratio of each energy efficiency rate class' actual 2017 energy efficiency program costs to the actual 2017 total energy efficiency program costs.
- 7 Q. WHY IS ONCOR USING THIS METHODOLOGY FOR ALLOCATING THE ENERGY EFFICIENCY PERFORMANCE BONUS?
 - A. Oncor is adhering to the Commission Rules regarding performance bonus allocation. Rule 25.181(h)(6) states: "The bonus shall be allocated in proportion to the program costs associated with meeting the demand and energy goals and allocated to eligible customers on a rate class basis."

VI. ALLOCATION OF THE 2017 EECRF PROCEEDING EXPENSES

- Q. WHY IS ONCOR INCLUDING THE MUNICIPALITIES' EECRF PROCEEDING EXPENSES INCURRED IN 2017 IN ITS 2019 TOTAL ENERGY EFFICIENCY COSTS?
- A. Substantive Rule 25.181(f) specifies that the determination of EECRFs are ratemaking proceedings for purposes of PURA § 33.023. As such, municipalities' EECRF proceeding (or rate case) expenses from EECRF proceedings are reimbursable. Oncor is including these expenses incurred in 2017 regarding Oncor's 2018 EECRF proceeding in Docket No. 47235 as directed by Rule 25.181(f)(3)(B) which states: "For municipalities' EECRF proceeding expenses, the utility may include only expenses paid or owed for the immediately previous EECRF proceeding conducted under this subsection for services reimbursable under PURA §33.023(b)."
- Q. WHAT IS THE AMOUNT OF THE MUNICIPALITIES' EECRF PROCEEDING EXPENSE INCURRED IN 2017 FOR DOCKET NO. 47235 AND HOW WAS IT DETERMINED?

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- 1 A. The amount of the municipalities' EECRF proceeding expense for 2017
 2 that was submitted to Oncor is \$8,971. These expenses were determined
 3 by the entity (i.e., Steering Committee of Cities Served by Oncor ["Cities"])
 4 representing several municipalities in Oncor's previous EECRF filing in
 5 Docket No. 47235.
- Q. PLEASE DESCRIBE THE METHODOLOGY USED BY ONCOR TO ALLOCATE THE MUNICIPALITIES' EECRF PROCEEDING EXPENSE TO THE ENERGY EFFICIENCY RATE CLASSES.
 - A. Oncor is proposing to use allocation factors based on the actual 2017 energy efficiency program costs by energy efficiency rate class. The municipalities' EECRF proceeding expense incurred in 2017 for each energy efficiency rate class is calculated by multiplying the total municipalities' EECRF proceeding expense of \$8,971 (column (a) of Exhibit JMS-3) by the allocation factor for each energy efficiency rate class (column (c) of Exhibit JMS-3).
 - Q. WHY IS ONCOR USING THIS METHODOLOGY FOR ALLOCATING THE MUNICIPALITIES' EECRF PROCEEDING EXPENSE?
 - A. Since the rule does not give direction on how to allocate the municipalities' EECRF proceeding expenses to the energy efficiency rate classes, and because through Cities the municipalities intervene and participate in the EECRF proceedings on behalf of all of their constituents (*i.e.*, all energy efficiency rate classes), Oncor believes its proposed allocation methodology for the municipalities' EECRF proceeding expenses incurred in 2017 is most reasonably and fairly accomplished by using the ratio of actual 2017 energy efficiency programs costs for each energy efficiency rate class to the total 2017 actual energy efficiency program costs. This is the same methodology used to allocate the performance bonus.
 - Q. HAS ONCOR REVIEWED THE REASONABLENESS OF THE MUNICIPALITIES' EECRF PROCEEDING EXPENSE?

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A. No, Oncor has not reviewed those expenses for reasonableness. The burden of proof for those expenses is the responsibility of the Cities. It is my understanding that Cities will provide testimony or other evidence proving the reasonableness of these expenses. If the Commission ultimately determines that some of these expenses were not reasonable, Oncor will modify the amount to equal the Commission approved amount.

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- Q. IS ONCOR PROPOSING TO INCLUDE EECRF PROCEEDING COSTS INCURRED BY SHARYLAND? IF SO, WHAT IS THE AMOUNT OF THE SHARYLAND EECRF PROCEEDING EXPENSE INCURRED IN 2017 AND HOW WAS IT DETERMINED?
- 11 A. Yes, Oncor is proposing to include 2017 EECRF proceeding costs 12 incurred by Sharyland in its 2019 total energy efficiency costs. The 13 amount of the EECRF proceeding expense for 2017 that was included as 14 a regulatory asset in Oncor's acquisition of Sharyland's energy efficiency 15 programs is \$44,330.
- 16 Q. HAS ONCOR REVIEWED THE REASONABLENESS OF SHARYLAND'S
 17 EECRF PROCEEDING EXPENSE?
- A. Yes, Oncor has obtained an affidavit from a Sharyland representative who has determined that the EECRF proceeding costs incurred by Sharyland in 2017 to support its 2018 EECRF are reasonable, necessary, and should be approved. See Mr. Stockard's testimony for the affidavit and more information.
- Q. WHAT IS THE TOTAL 2017 EECRF PROCEEDING EXPENSE ONCOR
 IS REQUESTING IN THIS PROCEEDING?
- A. Oncor is requesting \$53,301 for 2017 EECRF proceeding expenses which is the sum of the municipalities served by Oncor and the Sharyland EECRF proceeding expenses (\$8,971 + \$44,330 = \$53,301) as shown in my Exhibit JMS-3 column (i).
- 29 VII. EXEMPTION OF INDUSTRIAL CUSTOMERS FROM EECRF CHARGES

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- Q. WAS THERE A PROVISION ADDED IN THE ENERGY EFFICIENCY
 RULEMAKING (PROJECT NO. 39674) THAT ALLOWED CERTAIN
 INDUSTRIAL CUSTOMERS TO OPT-OUT OF PARTICIPATING IN AND
 PAYING FOR ENERGY EFFICIENCY PROGRAMS?
 - A. Yes. The addition of Substantive Rule 25.181(w) requires utilities like Oncor to exclude certain industrial customers from any energy efficiency programs and costs included in the EECRF. Subsection (w) states, "The account number(s) or ESID number(s) identified by the industrial customer under this section shall not be charged for any costs associated with programs provided under this section, including any shareholder bonus awarded; nor shall the identified facilities be eligible to participate in utility-administered energy efficiency programs during the term."
 - Q. HOW DID ONCOR DETERMINE THE ESIDS THAT QUALIFIED TO OPT-OUT FROM EECRF CHARGES UNDER RULE 25.181(w)?
 - A. According to the rule, the following information was required to be presented to the utility in order for an industrial customer taking electric service at distribution voltage to qualify for the EECRF exemption: the name of the industrial customer, a copy of the customer's Texas Sales and Use Tax Exemption Certification (pursuant to Tax Code §151.317), a description of the industrial process taking place at the consuming facilities, and the customer's applicable account number or ESID number. To facilitate an orderly process, Oncor posted on its website an application form, directions to complete the form and a description of the opt-out process. If an industrial customer provided the necessary information as stated in the rule, then Oncor accepted the request for the EECRF opt-out and notified the customer that the ESID(s) would not be charged the EECRF.
 - Q. WHEN DID ONCOR BEGIN THE INDUSTRIAL OPT-OUT PROCESS?
 - A. As stated in Subsection (w), "...notices shall be submitted not later than February 1 to be effective for the following program year." Oncor began

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- the industrial opt-out process when notices were received through
 February 1, 2013 that became effective with the first billing cycle of
 January 2014. Oncor has subsequently received notices through February
 1 of every year that became effective with the first billing cycle of January
 the following year. Notices are effective for three years after their
 acceptance.
- 7 Q. HOW DOES THE INDUSTRIAL OPT-OUT PROCESS AFFECT THE 8 NUMBER OF BILLING UNITS PER ENERGY EFFICIENCY RATE 9 CLASS?
- A. Oncor estimated the amount of energy (kWh) for 2019 for each opt-out ESID (i.e., those qualified for 2017-2019, 2018-2020, and 2019-2021) and reduced the total estimated energy efficiency rate class energy amount shown on my workpaper WP/JMS/3 accordingly. The 2019 billing units used in the calculation of the 2019 EECRFs are shown on my Exhibit JMS-4 column (f) and reflect the amount of energy for each energy efficiency rate class adjusted for industrial opt-out ESIDs.
- 17 Q. HOW DID ONCOR ACCOUNT FOR SHARYLAND'S INDUSTRIAL OPT-18 OUT CUSTOMERS?
 - A. Oncor received a list from Sharyland of the industrial opt-out customers and the corresponding documentation for each opt-out ESID. Oncor then used the Sharyland qualifying opt-out customers in the same way that Oncor used its qualifying opt-out customers by reducing the estimated 2019 energy (kWh) for each energy efficiency rate class. The 2019 energy is then used as billing units in the calculation of the 2019 EECRFs.

VIII. CALCULATION OF ONCOR'S LINE LOSS FACTOR USED IN DETERMINING ENERGY EFFICIENCY GOALS

- Q. WHY IS ONCOR PROVIDING THE CALCULATION OF THE LINE LOSS FACTOR IN THIS PROCEEDING?
- A. According to Rule 25.181(f)(12)(F), the order in an EECRF proceeding shall contain findings of fact regarding the reasonableness of "any

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calculations or estimates of system losses and line losses used in calculating the charges...." Even though line losses are not used in determining Oncor's EECRF charges, they are used in the calculation of energy efficiency goals. See the direct testimony of Oncor witness Mr. Stockard for more information regarding Oncor's demand reduction and energy savings goals. It is Oncor's understanding that at a previous open meeting approving a utility's EECRF case, the commissioners pointed out that the demand reduction goal was reported at the meter rather than at the source. Staff was directed to investigate how all utilities reported energy efficiency goals and the application of line losses. In the spirit of consistency and transparency, Staff has previously requested that utilities use the utility's latest approved line loss study in determining its line loss factor for the calculation of demand reduction goal.

- Q. HAS ONCOR CALCULATED THE LINE LOSS FACTOR USED IN DETERMINING ENERGY EFFICIENCY GOALS?
- A. Yes. Oncor has calculated the line loss factor used in determining energy efficiency goals according to Staff's recommendation as shown in my workpaper WP/JMS/4. The calculation uses the actual loss factors used in ERCOT Wholesale Settlement at the time of Oncor annual peak applied to the actual Oncor annual system peak demand by voltage level using load research data adjusted for industrial customers who have claimed the exemption from energy efficiency program participation and also adjusted to reflect Sharyland's demand at Oncor peak. The ERCOT distribution loss factors are based on the utility's approved loss factors in effect for the calendar year. For Oncor, 2017 loss factors are based on its most recent rate case (Docket No. 46957) and 2013-16 is based on the rate case in Docket No. 38929. The final calculation is a 5-year weighted average of the annual loss factors adjusted for industrial opt-out to match the 5-year average peak demand used in the calculation of the energy efficiency demand goal. The resulting weighted line loss factor used in calculating

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Sherburne - Direct Oncor Electric Delivery Application for 2019 EECRF the demand reduction goal is 5.932%. This line loss factor is also shown in Mr. Stockard's direct testimony in Exhibit MRS-1, page 5, footnote in Table 1.

IX. CALCULATION OF THE PROPOSED 2019 ENERGY EFFICIENCY COST RECOVERY FACTORS

- Q. HOW ARE THE PROPOSED ENERGY EFFICIENCY COST RECOVERY FACTORS CALCULATED?
- A. The proposed EECRFs are calculated by dividing the Total 2019 Energy Efficiency Costs (column (g) of my Exhibit JMS-4) by the 2019 forecasted opt-out adjusted energy for each energy efficiency rate class (column (f) of my Exhibit JMS-4). These EECRFs are also included in proposed Rider EECRF Energy Efficiency Cost Recovery Factor (my Exhibits JMS-5 (clean) and JMS-6 (annotated)).
 - Q. HOW WAS THE 2019 FORECASTED OPT-OUT ADJUSTED ENERGY
 BILLING UNITS BY ENERGY EFFICIENCY RATE CLASS
 DETERMINED?
- A. The forecasted number of energy billing units by energy efficiency rate class for 2019, adjusted for industrial opt-outs, is based on the information contained in Oncor's 2018 Energy and Demand Plan 2019 Projections as shown in WP/JMS/3.

X. CONCLUSION

- Q. PLEASE SUMMARIZE YOUR DIRECT TESTIMONY.
 - A. Oncor has accurately calculated allocation factors based on the actual 2017 energy efficiency program costs by energy efficiency rate class. I have used those factors to allocate the earned performance bonus discussed by Mr. Stockard, and I have accurately calculated the amounts by energy efficiency rate class to be recovered through an EECRF. I have also used those same factors to allocate the EECRF proceeding expense, and I have accurately calculated the amounts by energy efficiency rate class to be recovered through an EECRF. I have compared the actual

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2017 energy efficiency costs provided by Mr. Stockard to the energy efficiency revenues recovered in 2017 adjusted for the 2015 performance bonus amount, the 2015 (over)/under-collection of energy efficiency costs. and the EECRF proceeding expense incurred in 2015 to correctly calculate the 2017 (over)/under-recovery by energy efficiency rate class. I have also accurately calculated the proposed EECRFs on a per kWh basis (reasonably adjusted for the exclusion of certain industrial customers) and have included those factors in Rider EECRF - Energy Efficiency Cost Recovery Factor. The proposed 2019 EECRF will result in the recovery of Oncor's forecasted 2019 energy efficiency program costs. the allocation of the 2017 (over)/under-recovered energy efficiency costs, collection of the EECRF proceeding expenses incurred in 2017, Oncor's estimated expenses relating to the Commission's evaluation. measurement, and verification, and recovery of the earned 2017 energy efficiency performance bonus. In addition, I have accurately calculated the line loss factor used in determining Oncor's energy efficiency goals according to Staff's recommendation to use the latest approved line loss study. For all of these reasons, the proposed Rider EECRF is calculated correctly, is just and reasonable and should be approved. The 2019 EECRF factors should be made effective beginning with bills rendered on March 1, 2019.

- Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
- 23 A. Yes, it does.

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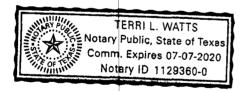
STATE OF TEXAS SOUNTY OF DALLAS

BEFORE ME, the undersigned authority, on this day personally appeared J. Michael Sherburne, who, having been placed under oath by me, did depose as follows:

My name is J. Michael Sherburne. I am of legal age and a resident of the State of Texas. The foregoing direct testimony and the attached exhibits offered by me are true and correct, and the opinions stated therein are, to the best of my knowledge and belief, accurate, true and correct.

J. Michael Sherburne

Subscribed and sworn to before ME by the said J. Michael Sherburne this 29th day of May, 2018.



Notary Public, State of Texas

PUC Docket No. ____

Sherburne – Direct Oncor Electric Delivery Application for 2019 EECRF

List of J. Michael Sherburne's Prior Commission Testimony

Docket No.

Case Style

DOCKET NO.	Case Style
11037	APPLICATION OF TEXAS UTILITIES ELECTRIC COMPANY FOR APPROVAL OF CALCULATION OF HOUSE BILL TAX ADJUSTMENT FACTORS FOR 1992. PURSUANT TO SUBST R. 23.21(d)
11632	APPL. OF TU ELECTRIC CO FOR APPROVAL OF CALCULATION OF H.B. 11 TAX ADJUSTMENT FACTORS FOR 1993. PURSUANT TO SUBST. R. 23.21(d)
11735	APPLICATION OF TEXAS UTILITIES ELECTRIC COMPANY FOR AUTHORITY TO CHANGE RATES
13575	APPL OF TEXAS UTILITIES ELEC CO FOR APPROVAL OF ITS 1995 INTEGRATED RESOURCE PLAN (IRP) AND THE DEMAND-SIDE MANAGEMENT PROGRAMS AND CONTRACTS, RENEWABLE RESOURCES AGREEMENT, AND NOTICES OF INTENT ASSOCIATED THEREWITH, FOR APPROVAL OF CERTAIN COST RECOVER
20200	COMPLAINT OF TEXAS DEPARTMENT OF TRANSPORTATION AGAINST TEXAS UTILITIES ELECTRIC COMPANY
20546	FULL SWITCHOVER COMPLIANCE FILINGS OF TEXAS-NEW MEXICO POWER COMPANY, TEXAS UTILITIES ELECTRIC COMPANY, SOUTHWESTERN ELECTRIC SERVICE COMPANY, AND THEIR COOPERATIVE COMPETITORS
21527	APPLICATION OF TXU ELECTRIC COMPANY FOR FINANCING ORDER TO SECURITIZE REGULATORY ASSETS AND OTHE QUALIFIED COSTS
22051	APPLICATION OF TXU ELECTRIC COMPANY TO REVISE TARIFF; TABLE OF CONTENTS; SECTION 2.1 CITIES SERVED LISTING AND TARIFF PAGES REFLECTING THE PROPOSED CHANGES
22344	GENERIC ISSUES ASSOCIATED WITH APPLICATIONS FOR APPROVAL OF UNBUNDLED COST OF SERVICE RATE PURSUANT TO PURA SECTION 39.201 AND PUBLIC UTILITY COMMISSION SUBST. R. 25.344
22350	APPLICATION OF TXU ELECTRIC COMPANY FOR APPROVAL OF UNBUNDLED COST OF SERVICE RATE PURSUANT TO PURA §B9.201 AND PUBLIC UTILITY COMMISSION SUBSTANTIVE RULE §25.344
24040	APPLICATION OF TXU ELECTRIC COMPANY TO IMPLEMENT PRICE TO BEAT FUEL FACTOR
24236	APPLICATION OF TXU ELECTRIC COMPANY FOR APPROVAL OF PRICE TO BEAT RATES IN COMPLIANCE WITH SUBST. 25 41(f)(1)(C)
25230	JOINT APPLICATION FOR APPROVAL OF STIPULATION REGARDING TXU ELECTRIC COMPANY TRANSITION TO COMPETITION ISSUES
25802	APPLICATION OF TXU ENERGY RETAIL COMPANY TO INCREASE PRICE TO BEAT FUEL FACTORS
27281	APPLICATION OF TXU ENERGY RETAIL COMPANY TO INCREASE PRICE TO BEAT FUEL FACTORS
27561	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. 25.192(g)(1)
28563	ONCOR ELECTRIC DELIVERY COMPANY'S COMPLIANCE TARIFF FILING AND PETITION TO PROVIDE COMPETITIVE METER ING CREDIT PURSUANT TO SUBST. R. §25.311
28585	APPLICATION OF TXU SESCO ENERGY SERVICES COMPANY TO INCREASE PRICE TO BEAT FUEL FACTORS AND REDUIPRICE TO BEAT BASE RATES
28636	PETITION OF ONCOR ELECTRIC DELIVERY COMPANY PURSUANT TO P.U.C. SUBST. R. 25.41(I)(1) REGARDING SMALL COMMERCIAL POWER CONSUMPTION THRESHOLD TARGET
29208	TXU SESCO ENERGY SERVICES COMPANY TRUE-UP FILING PURSUANT TO PURA §39.262(e)
29425	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBSTANTIVE RULE 25.192(g)(1)
29516	APPLICATION OF TXU ENERGY RETAIL COMPANY TO INCREASE PRICE TO BEAT FUEL FACTORS
29837	APPLICATION OF TXU ENERGY RETAIL COMPANY TO INCREASE PRICE TO BEAT FUEL FACTORS
30802	APPLICATION OF TXU ELECTRIC DELIVERY COMPANY FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. 25.192(g)(1)
31841	PETITION OF TXU GENERATION COMPANY LP FOR ADMINISTRATIVE DETERMINATION THAT THE FORTY PERCENT THRESHOLD TARGET OF PURA §39.153(b) HAS BEEN MET
32462	APPLICATION OF TXU ELECTRIC DELIVERY COMPANY FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R $25.192(g)(1)$
33904	APPLICATION OF TXU ELECTRIC DELIVERY COMPANY FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25.192(g)(1)
3 4 040	PETITION BY COMMISSION STAFF FOR A REVIEW OF THE RATES OF TXU ELECTRIC DELIVERY COMPANY
35398	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25 $192(g)(1)$
35634	ONCOR ELECTRIC DELIVERY COMPANY LLC'S REQUEST FOR APPROVAL OF ENERGY EFFICIENCY COST RECOVERY FACTOR
35690	PETITION OF BIG COUNTRY ELECTRIC COOPERATIVE, INC. FOR A CEASE AND DESIST ORDER
35717	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR AUTHORITY TO CHANGE RATES
35718	ONCOR ELECTRIC DELIVERY COMPANY LLC'S REQUEST FOR APPROVAL OF ADVANCED METERING SYSTEM (AMS) DEPLOYMENT PLAN AND REQUEST FOR ADVANCED METERING SYSTEM (AMS) SURCHARGE
36530	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR RATE CASE EXPENSES PERTAINING TO PUC DOCK NO. 35517
36958	ONCOR ELECTRIC DELIVERY LLC'S APPLICATION FOR 2010 ENERGY EFFICIENCY COST RECOVERY FACTOR

List of J. Michael Sherburne's Prior Commission Testimony

Docket No. Case Style

37496	APPLICATION OF ONCOR ELECTRIC DELIVERY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25.192(g)(1)
38217	ONCO ELECTRIC DELIVERY LLC'S APPLICATION FOR 2011 ENERGY EFFICIENCY COST RECOVERY FACTOR
38495	APPLICATION OF ONCOR ELECTRIC DELIVERY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25.192(g)(1)
38929	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR AUTHORITY TO CHANGE RATES
39239	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR RATE CASE EXPENSE SEVERED FROM PUC DOCKET NO. 38929
39375	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY, LLC FOR 2012 ENERGY EFFICIENCY COST RECOVERY FACTOR
39644	APPLICATION OF ONCOR ELECTRIC DELIVERY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R §25.192(h)(1)
40142	APPLICATION OF ONCOR ELECTRIC DELIVERY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25.192(h)(1)
40361	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY, ILC FOR 2013 ENERGY EFFICIENCY COST RECOVERY FACTOR
40603	APPLICATION OF ONCOR ELECTRIC DELIVERY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25.192(h)(1)
41166	APPLICATION OF ONCOR ELECTRIC DELIVERY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25 192(h)(1)
41544	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY, LLC FOR 2014 ENERGY EFFICIENCY COST RECOVERY FACTOR
41706	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25.192(h)(1)
41890	COMPLIANCE TARIFF OF ONCOR ELECTRIC DELIVERY COMPANY LLC REGARDING THE RULEMAKING RELATED TO ADVANCED METERING ALTERNATIVES, PURSUANT TO SUBST. R. §25.133(e)(1)
42113	REMAND OF DOCKET NO. 36530 (APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR RATE CASE EXPENSES RELATED TO PUC DOCKET NO. 35717)
42267	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R §25.192(h)(1)
42559	APPLIDATION OF ONCOR ELECTRIC DELIVERY COMPANY, LLC FOR 2015 ENERGY EFFICIENCY COST RECOVERY FACTOR
42706	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25.192(h)(1)
44363	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25 192(h)(1)
44784	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY, LLC TO ADJUST ITS ENERGY EFFICIENCY COST RECOVERY FACTOR
44968	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO SUBST. R. §25 192(h)(1)
45854	COMPLAINT OF GIOVANNI HOMES CORPORATION AGAINST ONCOR ELECTRIC DELIVERY COMPANY LLC
46013	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY, LLC TO ADJUST ITS ENERGY EFFICIENCY COST RECOVERY FACTOR
46210	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO 16 TEX. ADMIN. CODE §25.192(h)(1)
46825	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO 16 TEX. ADMIN. CODE §25.192(h)(1)
46957	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR AUTHORITY TO CHANGE RATES
47235	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY, LLC TO ADJUST ITS ENERGY EFFICIENCY COST RECOVERY FACTOR
47988	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR INTERIM UPDATE OF WHOLESALE TRANSMISSION RATES PURSUANT TO 16 TEX. ADMIN CODE §25.192(h)(1)
48231	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR APPROVAL OF A DISTRIBUTION COST RECOVERY FACTOR PURSUANT TO 16 TEX. ADMIN. CODE §25.243
48325	APPLICATION OF ONCOR ELECTRIC DELIVERY COMPANY LLC FOR AUTHORITY TO DECREASE RATES BASED ON THE TAX CUTS AND JOBS ACT OF 2017

Performance Bonus Allocation

(a)
Performance
Bonus¹
\$7,774,182

Performance Bonus for 2017 Energy Efficiency Programs

	(b)	(c)	(d) = (a) * (c) Allocated
	2017 Energy Efficiency	Performance Bonus	Performance
Energy Efficiency Rate Class	Program Costs ²	Allocation Factors	Bonus
Residential Service	29,915,725	61.23069382%	\$4,760,186
Secondary Service ≤ 10 kW	765,131	1.56604936%	\$121,747
Secondary Service > 10 kW	15,756,983	32.25096505%	\$2,507,249
Primary Service ≤ 10 kW	0	0.0000000%	\$0
Primary Service > 10 kW			
Distribution Line	2,242,087	4.58904281%	\$356,761
Substation	39,068	0.07996332%	\$6,216
Transmission Service			, ,
Non Profit	138,406	0.28328564%	\$22,023
For Profit	0	0.0000000%	\$0
Lighting Service	0	0.0000000%	\$0
Total	48,857,400	100.0000000%	\$7,774,182

¹Exhibit MRS-4 column (h)

Note: Sharyland does not seek a performance bonus associated with program year 2017.

²Workpaper WP/JMS/2 page 1, column (c)

EECRF Proceeding Expense Allocation

(a) Oncor EECRF Proceeding Expense¹

\$8,971

(e) Sharyland EECRF Proceeding Expense³ \$44,330

EECRF Proceeding Expense for 2017

		Oncor			Sharyland		
	(b)	(c) EECRF	(d) = (a) * (c)	(f)	(g)	(h) = (e) * (g)	(i) = (d) * (h)
	2017 Energy Efficiency	Proceeding Expense	Allocated EECRF	Sharyland	EECRF	Sharyland	Total
5 5 5 6	٠, ,	• .		2017 Energy Efficiency	Proceeding Expense	Allocated EECRF	Allocated EECRF
Energy Efficiency Rate Class	Program Costs ²	Allocation Factors	Proceeding Expense	Program Costs*	Allocation Factors	Proceeding Expense	Proceeding Expense
Residential Service	29,915,725	61.23069382%	\$5,493	360,974	73.44483102%	\$32,558	\$38,051
Secondary Service ≤ 10 kW	765,131	1.56604936%	\$141	5,340	1.08649210%	\$482	\$623
Secondary Service > 10 kW	15,756,983	32.25096505%	\$2,893	62,363	12.68855928%	\$5,625	\$8,518
Primary Service ≤ 10 kW	0	0.00000000%	\$0		0.00000000%	\$0	\$0
Primary Service > 10 kW						**	**
Distribution Line	2,242,087	4.58904281%	\$412	62,813	12.78011760%	\$5,665	\$6,077
Substation	39,068	0.07996332%	\$7		0.00000000%	\$0	\$7
Transmission Service						• •	•
Non Profit	138,406	0.28328564%	\$25	0	0.00000000%	\$0	\$25
For Profit	0	0.00000000%	\$0		0 00000000%	\$0	\$0
Lighting Service	0	0.0000000%	\$0	0	0.00000000%	\$0	\$0
Total	48,857,400	100.00000000%	\$8,971	491,490	100.00000000%	\$44,330	\$53,301

¹Exhibit MRS-4 column (h) - includes Oncor's municipal EECRF proceeding costs only

²Workpaper WP/JMS/2 page 1, column (c)

³Exhibit MRS-4 column (h) - includes Sharyland's EECRF Proceeding Expense

⁴Workpaper WP/MRS/8 page 1, column (d)

Calculation of 2019 Energy Efficiency Cost Recovery Factors

		 									2019
		2017	2019	2017		2017	2019		Total	1	Energy Efficiency
		(Over)/Under	Program	Performance	8	ECRF Proceeding	Billing Determinant	2019	Energy Efficiency	1	Cost Recovery
Line	Energy Efficiency Rate Class	Recovery ¹	Costs ²	 Bonus ³		Expense ⁴	(kWh)⁵		Costs		Factor (EECRF)
	(a)	(b)	 (c)	 (d)	-	(e)	(f)	(g) •	- (b)+(o)+(d)+(e)		(h) = (g) / (f)
1	Residential Service	\$ 1,439,424	28,899,466	4,760,186	\$	38,051	45,726,770,000	\$	35,137,127	\$	0.000768
2	Secondary Service ≤ 10 kW	\$ (253,384)	\$ 743,912	\$ 121,747	\$	623	1,880,180,000	\$	612,898	\$	0.000326
3	Secondary Service >10 kW	\$ (642,651)	\$ 17,864,129	\$ 2,507,249	\$	8,518	46,910,540,000	\$	19,737,245	\$	0.000421
4	Primary Service ≤ 10 kW	\$ (1,291)	\$ -	\$ -	\$	-	20,740,000	\$	(1,291)	\$	(0.000062)
5	Primary Service > 10 kW								* * *		,
6	Distribution Line	\$ (339,532)	\$ 2,678,683	\$ 356,761	\$	6,077	11,320,350,000	\$	2,701,989	\$	0 000239
7	Substation	\$ (38,184)	\$ 40,748	\$ 6,216	\$	7	2,233,820,000	\$	8,787	\$	0.000004
8	Transmission Service										
9	Non Profit	\$ (127,205)	\$ 131,461	\$ 22,023	\$	25	1,500,800,000	\$	26,304	\$	0.000018
10	For Profit	\$ •	\$ -	\$ -	\$	-	13,016,350,000	\$		\$	-
11	Lighting Service	\$	\$ -	\$ -	\$	•	440,330,000	\$	-	\$	
12											
13	Total	\$ 37,177	\$ 50,358,399	\$ 7,774,182	\$	53,301		\$	58,223,059		

¹WP/JMS/2 page 3, column (h)

²Exhibit MRS-4

³Exhibit JMS-2 column (d)

⁴Exhibit JMS-3 column (i)

⁵Source: Oncor Electric Delivery Company LLC's 2018 Energy and Demand Plan as shown on WP/JMS/3

Tariff for Retail Delivery Service Oncor Electric Delivery Company LLC

6.1.1 Delivery System ChargesApplicable: Entire Certified Service Area Effective Date: March 1, 2019

Sheet: 6.3 Page 1 of 1 Revision: Thirteen

6.1.1.6.3 Rider EECRF - Energy Efficiency Cost Recovery Factor

APPLICATION

Applicable, pursuant to PURA § 39.905(b)(4) and Substantive Rule § 25.181(f), to all eligible customers in energy efficiency rate classes that receive services under the Company's energy efficiency programs.

METHOD OF CALCULATION

An Energy Efficiency Cost Recovery Factor (EECRF) shall be calculated annually and shall equal by energy efficiency rate class the sum of: forecasted energy efficiency costs, any adjustment for past over-recovery or under-recovery of EECRF costs, any approved energy efficiency performance bonus for the previous year, any EECRF proceeding expenses from the previous year, and any applicable evaluation, measurement, and verification costs as determined by the commission; divided by the forecasted billing units for each class in demand or kWh.

MONTHLY RATE

Energy Efficiency Cost Recovery Factor (EECRF)

:	Residential Service	Secondar	y Service	P	rimary Service > 10 kW	ce	Transmissi	on Service	Lighting Service
		≤ 10 kW*	> 10 kW*	≤ 10 kW*	Distribution Line*	> 10 kW - Substation*	Non-Profit	For Profit	
Effective Date	(\$/kWh)								
March 1, 2019	0.000768	0.000326	0.000421	(0.000062)	0.000239	0.000004	0.000018	0.000000	0.000000
March 1, 2018	0.000760	(0.000114)	0.000444	0.000142	0.000158	(0.000010)	0.000545	0.000000	0.000000
March 1, 2017	0.000780	0.000329	0.000444	(0.000021)	0.000057	(0.000159)	(0.000104)	0.000000	0.000000
March 1, 2016	0.000995	0.001505	0.000459	0.000461	(0.000005)	(0.000046)	0.001335	0.000000	0.000000
March 1, 2015	0.001025	0.000997	0.000353	(0.000065)	0.000756	0.000025	0.000173	0.000000	0 000001
March 1, 2014	0.001014	0.000437	0.000525	(0.000004)	0.000649	0.000680	0.000525	(0.000002)	0.000000
:	(\$ / Retail Customer)								
Dec. 31, 2012	1.23	0.23	11.59	(2.58)	95.76	130.77	132.02	(1.61)	0.00
Jan. 3, 2012	0.99	0 36	6.65	(0.05)	130.77	130.77	(224.74)	(224.74)	0.00
Dec. 30, 2010	0.91	0.01	8.14	4.79	75.91	185.59	(71.62)	(71.62)	0.00
Dec. 30, 2009	0.89	0.11	9.66	0.06	59.87	720.49	273.71	273.71	0.00
Sept. 17, 2009	0.92	0.22	8.68	0.00	76.27	76.27	443.77	443.77	0.00
Dec. 29, 2008	0.22	(0.79)	2.48	(2.17)	26.17	26.17	(227.52)	(227.52)	(0.17)

^{*} Excludes those industrial customers taking electric service at distribution voltage qualifying for the exemption pursuant to Substantive Rule § 25.181(w).

NOTICE

This rate schedule is subject to the Company's Tariff and Applicable Legal Authorities.

Tariff for Retail Delivery Service Oncor Electric Delivery Company LLC

6.1.1 Delivery System Charges

Applicable: Entire Certified Service Area

Effective Date: March 1, 2019

Sheet: 6.3 Page 1 of 1 Revision: Thirteen

IT

6.1.1.6.3 Rider EECRF - Energy Efficiency Cost Recovery Factor

APPLICATION

Applicable, pursuant to PURA § 39.905(b)(4) and Substantive Rule § 25.181(f), to all eligible customers in energy efficiency rate classes that receive services under the Company's energy efficiency programs.

METHOD OF CALCULATION

An Energy Efficiency Cost Recovery Factor (EECRF) shall be calculated annually and shall equal by energy efficiency rate class the sum of: forecasted energy efficiency costs, any adjustment for past over-recovery or under-recovery of EECRF costs, any approved energy efficiency performance bonus for the previous year, any municipalities' EECRF proceeding expenses from the previous year, and any applicable evaluation, measurement, and verification costs as determined by the commission; divided by the forecasted billing units for each class in demand or kWh.

IT

MONTHLY RATE

Energy Efficiency Cost Recovery Factor (EECRF)

	Residential Service	Secondar	y Service	F	Primary Servion > 10 kW -		Transmissi	on Service	Lighting Service	
		≤ 10 kW*	> 10 kW*	≤ 10 kW*	Distribution Line*	> 10 kW - 1 Substation*	Non-Profit	For Profit		1
Effective Date	(\$/kWh)	(\$/kWh)	(\$/kWh)	(\$/kWh)	(\$/kWh)_	(\$/kWh)	(\$/kWh)	(\$/kWh)	(\$/kWh)	
March 1, 2019	0.000768	0.000326	0.000421	(0.000062)	0.000239	0.000004	0.000018	0.000000	0.000000]
March 1, 2018	0.000760	(0.000114)	0.000444	0.000142	0.000158	(0.000010)	0.000545	0.000000	0.000000	Ì
March 1, 2017	0.000780	0.000329	0.000444	(0.000021)	0.000057	(0.000159)	(0.000104)	0.000000	0.000000	
March 1, 2016	0.000995	0.001505	0.000459	0.000461	(0.000005)	(0.000046)	0.001335	0.000000	0.000000	l
March 1, 2015	0.001025	0.000997	0.000353	(0.000065)	0.000756	0.000025	0.000173	0.000000	0.000001	l
March 1, 2014	0.001014	0.000437	0.000525	(0.000004)	0 000649	0.000680	0.000525	(0.000002)	0.000000	١
	(\$ / Retail Customer)	(\$ / Retail Customer)	(\$ / Retail Customer)	(\$ / Retail Customer)						
Dec. 31, 2012	1.23	0.23	11.59	(2.58)	95.76	130.77	132.02	(1.61)	0.00]
Jan. 3, 2012	0.99	0.36	6.65	(0.05)	130.77	130.77	(224.74)	(224 74)	0.00	
Dec. 30, 2010	0.91	0.01	8.14	4.79	75.9 1	185.59	(71.62)	(71.62)	0 00	
Dec. 30, 2009	0.89	0.11	9.66	0.06	59.87	720.49	273.71	273.71	0.00	
Sept. 17, 2009	0.92	0.22	8.68	0.00	76.27	76.27	443.77	443.77	0.00	1
Dec. 29, 2008	0.22	(0.79)	2.48	(2.17)	26.17	26.17	(227.52)	(227.52)	(0.17)	

^{*} Excludes those industrial customers taking electric service at distribution voltage qualifying for the exemption pursuant to Substantive Rule § 25.181(w).

NOTICE

This rate schedule is subject to the Company's Tariff and Applicable Legal Authorities.

Testimony Workpapers Of Michael R. Stockard

2017 Commercial Load Management By Rate Code

Rate Code	kW Savigs	kWh Savings	Incentive	Ratio
D0	6,074.23	18,222.8	\$200,605.43	0.08591
D6	144.31	432.9	\$5,620.91	0.00241
E0	37,162.84	111,488.2	\$1,231,178.40	0.52726
EC	818.33	2,455.0	\$32,160.00	0.01377
EJ	1,517.08	4,551.2	\$53,148.89	0.02276
EQ	6,167.64	18,502.9	\$198,234.48	0.08490
K0	18,904.38	56,713.2	\$575,032.23	0.24626
K1	113.18	339.6	\$3,678.53	0.00158
L0	1,158.39	3,475.2	\$35,374.32	0.01515
Grand Total	72,0 8	216,181.0	\$ 2,335,033.20	1.00000

Rate Code	kW Saluns	kWh Savings	*Incentive
D0	107.59	322.8	\$4,189.90
D0	1324.69	3,974.1	\$40,449.60
D0	115.28	345.9	\$3,510.72
D0	321.82	965.5	\$9,845.28
D0	156.81	470.4	\$5,182.48
D0	1013.29	3,039.9	\$32,806.46
D0	311.01	933.0	\$10,059.65
D0	985.55	2,956.6	\$31,905.60
D0	109.84	329.5	\$3,565.92
D0	96.36	289.1	\$3,115.49
D0	1531.99	4,596.0	\$55,974.34
D6	144.31	432.9	\$5,620.91
E0	686.22	2,058.6	\$26,725.12
E0	29.96	89.9	\$1,160.28
E0	497.06	1,491.2	\$19,350.89
E0	356.82	1,070.5	\$13,897.58

Rate Code	kW Savings	kWh Savings	Incentive
E0	248.81	746.4	\$9,950.70
E0	1630.54	4891.6	\$65,226.90
E0	464.86	1394.6	\$14,195.52
E0	1049.40	3148.2	\$32,054.40
E0	-44.62	-133.9	-\$1,373.76
E0	-48.45	-145.3	-\$1,488.24
E0	-17.30	-51.9	-\$534.24
E0	31.91	95.7	\$992.16
E0	805.95	2417.9	\$24,613.20
E0	299.60	898.8	\$9,158.40
E0	2504.89	7514.7	\$76,510.80
E0	124.53	373.6	\$3,816.00
E0	135.21	405.6	\$4,121.28
E0	643.77	1931.3	\$19,652.40
E0	414.60	1243.8	\$12,669.12
E0	33.64	100.9	\$1,030.32

2017 Commercial Load Management By Rate Code

E0	988.66	2,966.0	\$38,495.51
E0	81.05	243.1	\$3,158.54

Rate Code	kW Salugs	kWh Savings	Incentive
E0	87.36	262.1	\$3,416.38
E0	31.94	95,8	\$1,279.20
E0	87.53	262.6	\$3,505.50
E0	231.00	693.0	\$9,240.00
E0	534.83	1,604.5	\$21,393.20
E0	870.60	2,611.8	\$28,800.00
E0	108.98	326.9	\$3,628.10
E0	289.61	868.8	\$9,634.70
E0	1735.79	5,207.4	\$57,737.20
E0	162.10	486.3	\$5,255.04
E0	132.31	396.9	\$4,279.10
E0	290.88	872.6	\$9,421.54
E0	339.80	1,019.4	\$10,998.05
E0	99.08	297.2	\$3,190.56
E0	103.80	311.4	\$3,378.24
E0	100.34	301.0	\$3,265.63
E0	752.27	2,256.8	\$24,360.86
E0	80.84	242.5	\$2,627.52
E0	72.00	216.0	\$2,327.23
E0	550.18	1,650.5	\$17,792.06
E0	283.97	851.9	\$9,196.32
E0	233.09	699.3	\$7,544.74
E0	94.20	282.6	\$3,040.42
E0	134.73	404.2	\$4,354.18
E0	95.71	287.1	\$3,115.49
E0	134.70	404.1	\$4,354.18
E0	111.86	335.6	\$3,603.46

E0	-11.18	-33.6	\$4,350.24
E0	1844.26	5532.8	, , , , , , , , , , , , , , , , , , ,

Rate Code	kW Savings	kWh Savings	Incentive
E0	2938.51	8815.5	\$97,012.97
E0	177.54	532.6	\$5,853.59
E0	716.68	2150.1	\$23,675.34
E0	92.23	276.7	\$3,002.88
E0	766.70	2300.1	\$24,811.30
E0	107.84	323.5	\$3,490.85
E0	113.75	341.2	\$3,678.53
E0	84.72	254.1	\$2,740.13
E0	4659.55	13978.7	\$125,906.87
E0	1161.08	3483.2	\$42,411.04
E0	795.87	2387.6	\$29,072.23
E0	1631.98	4895.9	\$59,622.40
EC	818.33	2455.0	\$32,160.00
EJ	460.85	1382.5	\$18,400.80
EJ	22.30	66.9	\$686.88
EJ	818.46	2455.4	\$27,030.90
EJ	118.68	356.0	\$3,914.82
EJ	96.79	290.4	\$3,115.49
EQ	198.15	594.4	\$7,709.42
EQ	2367.36	7102.1	\$72,275.04
EQ	164.51	493.5	\$5,037.12
EQ	7.45	22.3	\$228.96
EQ	68.12	204.4	\$2,098.80
EQ	3178.94	9536.8	\$104,954.46
EQ	127.66	383.0	\$4,128.96
EQ	55.45	166.4	\$1,801.73
K0	133.51	400.5	\$5,195.48

2017 Commercial Load Management By Rate Code

E0	115.30	345.9	\$3,716.06
E0	106.05	318.2	\$3,415.78
E0	81.23	243.7	\$2,627.52
E0	138.84	416.5	\$4,504.32
Rate Code	kW Sa Dgs	kWh Savings	Incentive
E0	109.37	328.1	\$3,528.38
E0	24.51	73.5	\$788.26
E0	109.18	327.6	\$3,528.38
E0	79.79	239.4	\$2,589.98
E0	389.91	1,169.7	\$12,612.10
E0	14.25	42.8	\$450.43
E0	1628.37	4,885.1	\$52,700.54
E0	515.81	1,547.4	\$16,703.52
E0	104.09	312.3	\$3,378.24
K0	403.83	1211.5	\$12,325.68
K0	1343.12	4029.4	\$44,330.68
K0	116.83	350.5	\$3,791.14

			
K0	82.60	247.8	\$3,308.70
K0	533.16	1599.5	\$21,328.20
K0	3280.70	9842.1	\$113,130.86
K0	2533.06	7599.2	\$87,349.14
Rate Code	kW Savings	kWh Savings	Incentive
K0	106.79	320.4	\$3,453.31
K0	109.75	329.2	\$3,565.92
K0	1840.18	5520.5	\$49,709.63
K0	4083.07	12249.2	\$110,304.58
K0	774.06	2322.2	\$20,924.00
K0	3563.72	10691.2	\$96,314.92
K1	113.18	339.6	\$3,678.53
L0	679.99	2,040.0	\$20,759.04
LO	32.65	98.0	\$992.16
L0	-33.66	-101.0	-\$1,030.32
L0	302.11	906.3	\$9,234.72
LO	177.30	531.9	\$5,418.72
N N 1. 1 +	72,060.38	216,181.0	2,335,033.20

Rate Code	kW Savalas	kWh Savings	Incentive	Ratio
B0	556.02	3,438,266.6	\$426,247.44	0.05433
D0	6,881.40	35,582,803.0	\$3,933,104.63	0.50128
D1	41.61	293,234.8	\$28,941.39	0.00369
D4	67.14	529,298.5	\$43,765.16	0.00558
D6	26.45	96,596.6	\$15,437.35	0.00197
DC	242.58	1,088,308.7	\$162,096.26	0.02066
DJ	177.92	547,338.3	\$99,252.42	0.01265
DK	3.56	15,041.5	\$1,823.18	0.00023
DQ	252.20	919,088.2	\$148,584.28	0.01894
DR	7.56	64,922.3	\$4,398.07	0.00056
E0	2,093.32	17,476,039.2	\$2,127,827.09	0.27119
EC	39.29	160,488.1	\$19,244.18	0.00245
EJ	136.52	441,489.6	\$83,427.00	0.01063
EQ	128.52	703,304.4	\$120,773.14	0.01539
K0	557.87	4,634,357.6	\$509,302.17	0.06491
K1	9.56	42,522.2	\$5,036.67	0.00064
N0	159.97	1,214,265.7	\$116,915.12	0.01490
Grand Total	11,381	67,247,365.3	\$ 7,846,175.57	1.00000

Rate Code	kW Savins	kWh Savings	Incentive
B0	0.01	90.5	\$7.59
B0	0.04	237.1	\$21.96
B0	0.04	239.8	\$22.20
B0	0.04	239.8	\$22.20
B0	0.04	239.8	\$22.20
B0	0.28	1,552.3	\$146.13
B0	0.26	1,721.5	\$153.18
B0	0.27	1,762.2	\$156.82
B0	0.27	1,762.2	\$156.82
B0	0.27	1,762.2	\$156.82

Rate Code	kW Savings	kWh Savings	Incentive
B0	0.36	2,349.7	\$209.11
B0	0.36	2,349.7	\$209.11
B0	0.37	2,404.0	\$246.04
B0	0.45	2,937.0	\$261.36
B0	0.45	2,937.0	\$261.36
B0	0.45	2,937.0	\$261.36
B0	0.55	2,989.7	\$284.62
B0	0.56	3,056.5	\$290.97
B0	0.54	3,524.5	\$313.65
B0	0.54	3,524.5	\$313.65

Rate Code	kW Saviit is	kWh Savings	Incentive
B0	0.54	3,524.5	\$313.65
B0	0.54	3,524.5	\$313.65
B0	0.54	3,524.5	\$313.65
B0	0.54	3,524.5	\$313.65
B0	0.79	2,839.0	\$333.02
B0	0.62	4,053.4	\$360.71
B0	0.63	4,111.8	\$365.93
B0	0.63	4,111.8	\$365.93
B0	0.63	4,111.8	\$365.93
B0	0.63	4,111.8	\$365.93
B0	0.63	4,111.8	\$365.93
B0	0.81	4,449.4	\$423.56
B0	0.81	4,449.4	\$423.56
B0	0.81	4,449.4	\$423.56
B0	0.84	4,619.7	\$439.78
B0	0.81	5,286.7	\$470.47
B0	1.06	5,815.6	\$553.64
B0	1.06	5,815.6	\$553.64
B0	1.10	6,049.4	\$575.88
B0	1.24	6,804.4	\$647.76
B0	1.24	6,804.4	\$647.76
B0	1.07	7,020.2	\$718.45
B0	1.24	7,536.9	\$792.72
B0	1.36	8,926.9	\$794.44
B0	1.37	8,989.0	\$799.99
B0	1.39	9,114.7	\$811.13
B0	2.43	15,937.7	\$993.78
B0	2.95	19,304.7	\$1,718.00
B0	3.54	23,176.5	\$2,062.54
B0	3.67	24,020.5	\$2,137.69
B0	3.70	24,214.1	\$2,154.88
B0	4.57	13,184.7	\$2,601.53
B0	4.00	26,236.2	\$2,685.05

Rate Code	kW Savings	kWh Savings	Incentive
B0	8.97	40,777.8	\$3,386.44
B0	4.69	24,746.2	\$3,734.89
B0	8.29	46,762.6	\$4,251.05
B0	11.90	67,105.4	\$6,446.00
B0	12.54	82,175.5	\$7,313.0 6
B0	34.34	269,395.7	\$15,802.36
B0	29.80	195,240.8	\$19,981.40
B0	140.57	639,156.3	\$65,877.74
B0	197.22	823,458.6	\$136,447.40
B0	53.76	927,075.2	\$132,282.16
D0	-0.50	-3,958.7	(\$380.62)
D0	-0.33	-2,138.5	(\$190.32)
D0	-0.02	-157.7	(\$14.04)
D0	0.00	-10.2	(\$1.10)
D0	0.01	55.2	\$3.95
D0	0.01	77.6	\$6.31
D0	0.02	105.9	\$7.59
D0	0.02	70.4	\$7.72
D0	0.03	133.6	\$9.74
D0	0.03	146.8	\$10.69
D0	0.03	142.6	\$14.87
D0	0.04	239.8	\$22.20
D0	0.07	437.1	\$27.96
D0	0.06	465.5	\$37.92
D0	0.12	555.6	\$39.25
D0	0.06	468.2	\$40.14
D0	0.09	564.8	\$40.49
D0	0.07	511.2	\$43.30
D0	0.11	512.4	\$50.26
D0	0.11	508.2	\$50.28
D0	0.16	724.1	\$52.81
D0	0.18	806.8	\$58.48
D0	0.17	754.2	\$80.15

Rate Code	kW Saving	kWh Savings	incentive
D0	0.27	1,186.1	\$86.49
D0	0.14	1,057.2	\$90.64
D0	0.28	1,244.8	\$90.79
D0	0.22	1,461.7	\$91.13
D0 -	0.24	1,021.0	\$104.39
D0	0.25	911.6	\$106.95
D0	0.27	1,753.9	\$109.37
D0	0.25	1,130.1	\$120.04
D0	0.27	1,217.9	\$129.36
D0	0.28	1,552.3	\$146.13
D0	0.28	1,552.3	\$146.13
D0	0.28	1,552.3	\$146.13
D0	0.28	1,552.3	\$146.13
D0	0.25	1,659.4	\$147.67
D0	0.37	1,598.1	\$161.35
D0	0.28	1,819.2	\$161.90
D0	0.40	2,630.9	\$164.04
D0	0.30	2,330.3	\$189.90
D0	0.45	1,848.0	\$191.61
D0	0.43	1,995.3	\$195.69
D0	0.62	2,832.9	\$204.59
D0	0.39	2,156.2	\$205.27
D0	0.68	3,170.2	\$226.31
D0	0.73	3,306.3	\$274.58
D0	0.59	2,664.6	\$280.18
D0	0.54	3,524.5	\$313.65
D0	0.66	3,151.7	\$318.54
D0	0.65	3,110.4	\$319.01
D0	0.86	4,092.5	\$332.62
D0	0.71	3,171.3	\$336.84
D0	0.58	3,816.0	\$339.59
D0	0.76	3,504.0	\$373.47
D0	0.56	4,419.4	\$376.89

Rate Code	kW Savings	kWh Savings	Incentive
D0	0.52	4,092.6	\$383.59
D0	0.70	4,560.5	\$405.87
D0	0.72	4,699.3	\$418.19
D0	0.90	4,675.8	\$437.45
D0	0.76	5,249.1	\$457.91
D0	0.79	5,158.9	\$458.74
D0	0.83	5,411.0	\$481.54
D0	1.53	6,913.7	\$501.16
D0	1.08	4,793.0	\$509.03
D0	1.15	5,208.0	\$515.08
D0	1.10	4,896.9	\$520.12
D0	1.33	8,377.1	\$529.12
D0	0.89	6,305.2	\$545.94
D0	1.14	5,506.0	\$552.17
D0	1.06	5,815.6	\$553.64
D0	1.10	6,049.4	\$575.88
D0	1.10	6,049.4	\$575.88
D0	1.11	5,066.8	\$576.32
D0	1.20	5,921.2	\$587.97
D0	1.47	9,626.6	\$600.22
D0	1.28	5,682.1	\$603.63
D0	1.29	5,741.2	\$609.56
D0	0.81	6,382.8	\$614.11
D0	1.29	5,818.1	\$614.17
D0	0.95	7,499.8	\$639.60
D0	1.10	7,219.5	\$642.49
D0	1.24	6,804.4	\$647.76
D0	1.12	7,353.7	\$654.41
D0	1.19	7,795.3	\$693.79
D0	1.20	7,888.1	\$701.98
D0	1.54	6,838.0	\$726.29
D0	1.25	8,767.6	\$740.06
D0	1.82	11,954.6	\$745.37

Rate Code	kW Savings	kWh Savings	incentive
D0	1.48	2,235.1	\$747.04
D0	1.59	7,078.9	\$751.63
D0	1.06	4,645.3	\$755.64
D0	1.24	9,074.6	\$778.00
D0	1.84	6,905.3	\$778 .97
D0	1.81	7,055.7	\$782.01
D0	1.09	7,960.6	\$784.87
D0	1.71	13,503.8	\$790.88
D0	1.66	7,542.6	\$792.89
D0	1.28	9,310.2	\$798.20
D0	1.29	9,443.3	\$809.64
D0	1.33	3,255.0	\$829.07
D0	1.94	13,621.4	\$829.25
D0	1.36	9,940.0	\$852.21
D0	1.80	8,337.2	\$852.23
D0	1.91	8,694.0	\$859.92
D0	1.41	10,299.8	\$883.02
D0	1.94	8,605.1	\$914.04
D0	1.38	9,026.9	\$923.82
D0	1.54	5,195.2	\$947.14
D0	1.93	10,121.6	\$981.40
D0	1.74	11,389.5	\$1,013.58
D0	2.35	11,395.6	\$1,141.97
D0	2.01	10,188.4	\$1,151.64
D0	1.98	12,987.0	\$1,155.76
D0	2.00	13,094.9	\$1,165.36
D0	1.99	13,599.6	\$1,191.88
D0	2.51	11,322.8	\$1,195.21
D0	1.79	11,737.7	\$1,201.26
D0	2.07	13,586.4	\$1,209.10
D0	2.80	4,733.4	\$1,275.24
D0	2.16	15,033.4	\$1,309.40
D0	2.25	14,753.2	\$1,312.59

Rate Code	kW Savings	kWh Savings	Incentive
D0	2.27	14,886.7	\$1,324.82
D0	2.28	14,944.3	\$1,329.97
D0	3.12	12,154.8	\$1,347.16
D0	3.03	13,769.7	\$1,361.73
D0	1.92	15,080.9	\$1,413.52
D0	2.45	16,024.0	\$1,426.03
D0	2.45	16,024.0	\$1,426.03
D0	2.84	6,377.0	\$1,443.32
D0	2.16	15,033.4	\$1,505.81
D0	2.60	17,035.0	\$1,515.99
D0	3.19	14,671.1	\$1,534.42
D0	2.67	17,504.2	\$1,557.77
D0	2.31	7,066.8	\$1,598.41
D0	3.60	16,384.8	\$1,620.39
D0	2.87	18,797.1	\$1,672.83
D0	2.52	16,495.8	\$1,688.20
D0	2.55	16,722.9	\$1,710.79
D0	4.98	32,619.4	\$1,780.22
D0	3.83	17,435.0	\$1,797.02
D0	3.90	30,674.5	\$1,798.05
D0	3.81	17,187.5	\$1,814.27
D0	4.43	28,995.0	\$1,819.78
D0	3.23	21,131.0	\$1,880.51
D0	4.64	24,094.8	\$1,889.89
D0	3.32	21,746.2	\$1,935.26
D0	3.32	21,746.2	\$1,935.26
D0	3.61	9,273.1	\$1,946.42
D0	5.50	28,811.0	\$1,958.30
D0	4.30	18,095.9	\$1,971.84
D0	1.94	14,983.5	\$1,996.08
D0	3.61	9,809.0	\$1,997.47
D0	3.20	18,863.8	\$2,008.18
D0	3.07	20,114.7	\$2,058.63

Rate Code	kW Saymus	kWh Savings	Incentive
D0	4.46	20,119.0	\$2,081.55
D0	3.14	20,601.4	\$2,108.40
D0	3.16	20,727.3	\$2,121.27
D0	3.20	20,939.0	\$2,142.95
D0	4.50	21,335.2	\$2,158.47
D0	3.72	24,811.9	\$2,193.99
D0	3.87	8,259.2	\$2,214.30
D0	4.01	26,282.4	\$2,338.94
D0	4.08	20,795.8	\$2,346.09
D0	3.54	23,176.5	\$2,371.92
D0	5.08	23,543.4	\$2,406.47
D0	5.38	24,448.1	\$2,418.12
D0	4.57	13,184.7	\$2,601.53
D0	4.57	13,184.7	\$2,601.53
D0	4.57	13,184.7	\$2,601.53
D0	4.19	10,256.3	\$2,609.86
D0	3.46	16,901.0	\$2,628.55
D0	3.70	29,103.2	\$2,727.81
D0	2.82	19,992.2	\$2,731.36
D0	4.76	31,194.3	\$2,776.08
D0	4.80	31,460.5	\$2,799.74
D0	4.94	32,347.6	\$2,878.73
D0	4.46	27,854.4	\$2,900.09
D0	4.36	28,599.8	\$2,926.26
D0	5.44	24,718.2	\$2,929.84
D0	6.59	28,618.3	\$3,012.32
D0	5.81	13,713.3	\$3,017.87
D0	6.47	29,324.0	\$3,027.30
D0	3.68	16,383.9	\$3,039.75
D0	6.61	31,305.2	\$3,169.20
D0	5.48	35,868.1	\$3,192.03
D0	4.23	33,320.3	\$3,203.14
D0	4.25	16,038.4	\$3,280.98

Rate Code	kW Savings	kWh Savings	Incentive
D0	5.76	37,728.2	\$3,357.55
D0	7.47	33,964.4	\$3,359.31
D0	5.83	38,204.9	\$3,399.98
D0	5.09	33,399.4	\$3,416.10
D0	5.18	33,940.6	\$3,473.58
D0	6.02	39,423.6	\$3,508.45
D0	7.49	35,491.0	\$3,592.30
D0	7.76	35,000.4	\$3,621.12
D0	7.20	16,226.6	\$3,664.86
D0	7.67	36,533.4	\$3,688.26
D0	6.36	41,678.1	\$3,709.08
D0	8.37	37,727.8	\$3,745.06
D0	7.88	37,579.6	\$3,793.50
D0	7.97	37,914.2	\$3,829.96
D0	6.57	43,061.0	\$3,832.12
D0	8.03	38,266.2	\$3,863.43
D0	8.04	38,264.3	\$3,864.64
D0	8.04	38,274.8	\$3,865.25
D0	6.63	43,437.4	\$3,865.64
D0	6.64	43,492.5	\$3,870.55
D0	8.03	38,408.4	\$3,871.88
D0	7.03	33,274.7	\$3,874.22
D0	7.03	33,273.0	\$3,875.75
D0	8.08	38,525.0	\$3,889.51
D0	8.15	38,815.2	\$3,919.92
D0	8.18	38,964.4	\$3,935.21
D0	8.19	38,976.3	\$3,936.94
D0	8.21	39,118.6	\$3,950.47
D0	7.18	33,991.3	\$3,956.85
D0	8.38	38,821.6	\$3,968.23
D0	8.26	39,359.5	\$3,973.37
D0	9.35	35,393.7	\$3,976.08
D0	8.35	39,784.9	\$4,017.16

Rate Code	kW Sayuus	kWh Savings	Incentive
D0	8.60	39,081.7	\$4,028.14
D0	9.29	69,744.5	\$4,059.98
D0	8.52	40,312.0	\$4,082.91
D0	7.43	35,423.1	\$4,112.40
D0	8.57	40,889.7	\$4,12 6 .91
D0	7.44	20,493.0	\$4,143.49
D0	9.27	42,159.6	\$4,169.41
D0	7.19	47,116.8	\$4,193.08
D0	8.74	41,591.8	\$4,201.31
D0	8.77	41,767.6	\$4,218.55
D0	8.78	41,875.3	\$4,225.65
D0	8.19	37,227.1	\$4,234.43
D0	8.29	46,762.6	\$4,251.05
D0	8.29	46,762.6	\$4,251.05
D0	8.29	46,762.6	\$4,251.05
D0	8.83	42,169.0	\$4,252.90
D0	6.36	41,645.6	\$4,262.11
D0	8.34	47,045.4	\$4,276.76
D0	8.95	42,401.8	\$4,291.22
D0	8.96	42,444.9	\$4,296.11
D0	8.94	42,557.0	\$4,297.97
D0	9.04	42,760.5	\$4,330.17
D0	9.02	42,965.3	\$4,338.92
D0	9.12	43,149.2	\$4,370.74
D0	7.95	37,876.2	\$4,398.38
D0	9.19	43,562.7	\$4,408.42
D0	6.60	43,264.5	\$4,427.75
D0	6.61	43,324.1	\$4,433.88
D0	5.11	30,862.6	\$4,441.56
D0	8.14	38,763.4	\$4,501.39
D0	7.75	50,741.2	\$4,515.63
D0	9.51	45,010.3	\$4,558.52
D0	9.52	45,066.3	\$4,563.81

Rate Code	kW Savings	kWh Savings	Incentive :
D0	7.49	52,565.5	\$4,565.18
D0	8.26	39,377.5	\$4,572.18
D0	9.58	45,303.1	\$4,588.13
D0	7.89	51,706.2	\$4,601.51
D0	9.62	45,510.0	\$4,608.54
D0	9.62	45,531.4	\$4,609.72
D0	8.35	39,797.1	\$4,620.02
D0	9.65	45,677.4	\$4,625.25
D0	8.35	39,861.9	\$4,625.63
D0	9.68	45,843.4	\$4,640.89
D0	8.39	40,004.7	\$4,644.24
D0	9.71	45,944.1	\$4,652.35
D0	9.72	45,998.1	\$4,658.16
D0	4.73	26,826.0	\$4,658.21
D0	8.49	40,191.3	\$4,679.19
D0	10.34	79,783.5	\$4,704.69
D0	7.76	54,140.7	\$4,713.29
D0	7.78	54,247.9	\$4,722.85
D0	9.88	46,761.9	\$4,735.13
D0	7.83	54,536.8	\$4,748.93
D0	9.92	46,914.4	\$4,751.13
D0	7.83	54,566.9	\$4,751.56
D0	7.11	46,591.0	\$4,768.25
D0	9.96	47,111.7	\$4,771.33
D0	9.98	47,255.8	\$4,784.44
D0	3.08	40,937.5	\$4,802.27
D0	10.04	47,495.6	\$4,809.43
D0	10.04	47,502.0	\$4,809.76
D0	10.06	47,614.4	\$4,821.46
D0	7.92	55,533.4	\$4,824.56
D0	10.07	47,645.8	\$4,825.08
D0	10.07	47,663.4	\$4,826.83
D0	10.10	47,811.0	\$4,840.14

Rate Code	kW Savins	kWh Savings	Incentive
D0	10.10	47,820.5	\$4,840.51
D0	10.13	47,996.0	\$4,857.85
D0	10.15	48,059.9	\$4,865.76
D0	10.15	48,069.6	\$4,866.12
D0	10.15	48,085.0	\$4,867.90
D0	10.25	48,560.0	\$4,915.97
D0	8.12	56,622.6	\$4,930.12
D0	10.31	48,809.1	\$4,942.29
D0	8.54	55,916.1	\$4,976.07
D0	7.44	48,716.8	\$4,985.78
D0	7.88	47,688.8	\$5,025.53
D0	11.21	50,971.3	\$5,041.22
D0	10.70	49,242.4	\$5,048.28
D0	9.16	43,353.4	\$5,048.41
D0	7.53	49,333.8	\$5,048.90
D0	10.68	50,506.6	\$5,115.21
D0	5.90	35,617.5	\$5,127.09
D0	9.32	44,058.5	\$5,132.22
D0	8.85	57,989.9	\$5,160.71
D0	8.85	57,989.9	\$5,160.71
D0	10.77	50,983.4	\$5,161.31
D0	10.77	50,969.5	\$5,161.34
D0	10.84	51,359.1	\$5,198.51
D0	10.85	51,354.6	\$5,200.68
D0	10.64	22,071.6	\$5,234.90
D0	10.90	51,815.2	\$5,237.42
D0	10.98	51,968.9	\$5,262.27
D0	7.56	52,634.2	\$5,271.41
D0	10.98	52,196.8	\$5,276.08
D0	10.80	40,889.1	\$5,282.42
D0	11.03	52,170.2	\$5,283.43
D0	9.09	59,517.7	\$5,296.67
D0	11.11	52,598.3	\$5,325.45

Rate Code	kW Savings	kWh Savings	Incentive
D0	11.12	52,630.3	\$5,329.18
D0	11.27	53,617.1	\$5,416.81
D0	8.99	62,686.2	\$5,458.45
D0	9.90	47,134.3	\$5,474.47
D0	9.41	61,621.3	\$5,483.90
D0	9.95	47,096.4	\$5,484.79
D0	9.06	63,155.4	\$5,498.53
D0	9.08	63,264.8	\$5,508.44
D0	12.08	52,409.3	\$5,516.68
D0	11.49	54,612.3	\$5,520.79
D0	10.03	47,480.7	\$5,529.08
D0	8.00	55,741.8	\$5,582.04
D0	8.35	54,682.5	\$5,596.45
D0	9.26	64,588.1	\$5,622.79
D0	10.23	48,428.2	\$5,638.61
D0	11.83	55,940.5	\$5,666.85
D0	8.14	56,680.1	\$5,676.54
D0	10.32	48,868.6	\$5,688.20
D0	10.34	48,954.2	\$5,699.90
D0	10.44	49,378.6	\$5,750.86
D0	12.08	57,231.7	\$5,792.37
D0	9.97	65,328.9	\$5,813.79
D0	7.78	61,142.9	\$5,882.76
D0	13.72	53,379.1	\$5,916.16
D0	12.67	57,619.4	\$5,938.83
D0	13.48	61,286.9	\$6,061.02
D0	8.80	61,316.5	\$6,139.78
D0	10.20	71,170.3	\$6,194.49
D0	14.45	56,199.7	\$6,228.86
D0	10.37	72,284.2	\$6,293.16
D0	11.54	54,691.3	\$6,365.13
D0	12.71	55,127.5	\$6,394.87
D0	11.90	67,105.4	\$6,446.00

Rate Code	kW Say in s	kWh Savings	Incentive
D0	11.90	67,105.4	\$6,446.00
D0	11.90	67,105.4	\$6,446.00
D0	11.90	67,105.4	\$6,446.00
D0	4.95	43,867.4	\$6,473.86
D0	9 .31	64,932.4	\$6, 499 .48
D0	10.45	76,223.6	\$6,534.35
D0	13.66	64,696.5	\$6,549.88
D0	14.03	64,992.5	\$6,643.16
D0	11.03	76,851.9	\$6,691.85
D0	10.77	38,000.3	\$6,787.19
D0	11.36	79,115.6	\$6,890.03
D0	11.43	79,619.2	\$6,933.57
D0	12.77	60,481.2	\$7,040.77
D0	14.72	69,741.8	\$7,059.65
D0	14.84	70,264.0	\$7,112.80
D0	12.23	80,445.9	\$7,147.61
D0	9.07	35,583.0	\$7,152.88
D0	15.16	71,764.2	\$7,265.87
D0	15.44	73,138.5	\$7,403.52
D0	15.83	72,334.7	\$7,438.60
D0	20.12	91,474.6	\$7,596.58
D0	16.91	76,877.5	\$7,602.88
D0	16.28	74,000.6	\$7,627.30
D0	13.28	86,984.9	\$7,741.08
D0	11.80	77,305.5	\$7,911.63
D0	16.79	79,940.1	\$8,074.33
D0	17.39	79,083.3	\$8,151.12
D0	13.49	93,826.1	\$8,175.62
D0	15.15	71,725.8	\$8,350.37
D0	15.16	71,797.7	\$8,358.11
D0	15.17	72,015.2	\$8,374.94
D0	15.45	73,180.9	\$8,519.21
D0	10.72	57,789.7	\$8,657.08

Rate Code	kW Savings	kWh Savings	Incentive
D0	19.15	87,090.8	\$8,976.46
D0	19.27	86,855.6	\$8,986.14
D0	15.65	47,913.0	\$9,169.42
D0	13.96	110,091.3	\$9,202.81
D0	20 . 10	90,934.5	\$9,392.50
D0	13.58	94,885.9	\$9,492.51
D0	18.14	43,794.9	\$9,511.78
D0	18.16	43,981.5	\$9,536.35
D0	16.77	109,863.5	\$9,777.11
D0	4.99	90,024.9	\$10,031.67
D0	15.49	101,491.8	\$10,386.91
D0	18.54	90,490.6	\$10,398.15
D0	22.30	101,408.0	\$10,452.14
D0	19.44	88,368.9	\$10,474.44
D0	15.15	105,629.9	\$10,575.35
D0	15.80	103,500.2	\$10,592.59
D0	23.73	107,884.9	\$10,669.48
D0	16.43	129,150.0	\$10,805.14
D0	18.68	57,681.3	\$10,991.01
D0	9.91	85,861.7	\$11,086.53
D0	19.20	125,783.4	\$11,193.76
D0	25.12	114,193.8	\$11,294.86
D0	18.09	142,585.3	\$11,919.09
D0	26.10	205,233.7	\$12,030.23
D0	23.80	124,405.7	\$12,320.94
D0	18.89	123,735.9	\$12,663.41
D0	22.41	146,813.0	\$13,065.38
D0	28.51	224,788.6	\$13,165.34
D0	20.11	158,557.8	\$13,254.30
D0	24.24	68,999.0	\$13,707.04
D0	23.73	155,433.2	\$13,832.50
D0	7.90	98,825.5	\$13,849.69
D0	30.90	139,931.9	\$13,861.94

Rate Code	kW Say Ms	kWh Savings	<u>Incentive</u>
D0	31.81	143,401.1	\$14,836.42
D0	30.60	119,034.6	\$15,172.21
D0	14.46	119,631.1	\$15,639.90
D0	29.83	155,966.5	\$15,752.90
D0	24.60	193,409.0	\$16,181.29
D0	17.58	77,213.5	\$17,007.96
D0	37.06	168,496.1	\$17,366.82
D0	30.45	199,442.8	\$17,749.04
D0	38.00	172,775.8	\$17,807.92
D0	39.01	177,385.9	\$18,283.16
D0	41.18	187,149.2	\$18,511.63
D0	40.79	185,451.0	\$19,114.44
D0	26.15	54,434.3	\$19,494.14
D0	33.88	221,941.9	\$19,751.34
D0	16.69	163,461.6	\$20,463.26
D0	33.61	112,347.2	\$20,592.93
D0	19.97	118,435.2	\$22,560.04
D0	48.88	222,238.0	\$22,906.07
D0	38.68	215,471.8	\$23,443.54
D0	42.11	125,645.0	\$24,363.43
D0	37.93	291,331.1	\$24,557.38
D0	53.40	242,798.8	\$25,025.25
D0	35.41	134,070.5	\$27,385.11
D0	41.96	330,840.0	\$27,655.82
D0	62.71	285,029.8	\$28,193.18
D0	54.42	236,197.7	\$28,592.01
D0	49.82	326,343.9	\$29,042.37
D0	125.81	231,342.6	\$29,614.16
D0	45.38	297,299.2	\$30,426.26
D0	66.67	301,045.2	\$31,124.47
D0	38.36	218,034.0	\$32,043.48
D0	57.53	376,889.8	\$33,540.70
D0	58.18	219,049.3	\$37,980.76

Rate Code	kW Savings	kWh Savings	Incentive
D0	31.08	243,057.0	\$38,114.83
D0	169.44	311,582.0	\$39,885.68
D0	37.11	314,123.3	\$40,812.44
D0	95.47	433,597.9	\$42,900.62
D0	99 . 10	446,79 1.1	\$46,225.02
D0	128.59	584,125.9	\$61,449.86
D0	136.58	592,800.9	\$62,398.30
D0	134.15	609,801.2	\$62,859.28
D0	134.85	612,154.2	\$63,139.71
D0	116.88	309,559.8	\$75,454.54
D0	65.91	600,046.7	\$76,491.09
D0	183.34	842,553.6	\$86,429.74
D0	214.57	975,600.2	\$100,554.62
D0	218.26	990,633.4	\$102,183.75
D0	231.30	1,051,647.6	\$108,393.20
D0	120.74	766,849.2	\$108,517.23
D0	114.74	767,952.0	\$126,185.24
D0	273.92	1,238,386.1	\$127,964.78
D0	106.85	1,692,489.6	\$211,241.95
D1	3.03	19,548.8	\$2,010.55
D1	9.48	44,900.9	\$5,227.17
D1	29.10	228,785.1	\$21,703.67
D4	2.03	15,972.2	\$1,362.16
D4	2.41	18,984.9	\$1,546.26
D4	62.70	494,341.4	\$40,856.74
D6	0.81	3,701.9	\$421.07
D6	1.81	4,370.6	\$948.78
D6	1.96	5,280.5	\$1,080.62
D6	2.91	19,047.9	\$1,695.15
D6	7.49	34,915.1	\$4,176.55
D6	11.47	29,280.6	\$7,115.18
DC	0.00	6.8	\$0.48
DC	0.10	428.6	\$31.23

Rate Code	kW Say	kWh Savings	Incentive
DC	0.19	902.6	\$74.35
DC	0.16	1,032.9	\$91.93
DC	0.19	317.8	\$100.08
DC	1.11	4,062.5	\$473.79
DC	2.02	9,346.6	\$1,098.65
DC	1.65	10,813.3	\$1,106.66
DC	2.36	15,428.6	\$1,373.06
DC	2.59	16,940.5	\$1,507.60
DC	3.98	26,087.7	\$2,093.50
DC	5.64	30,487.5	\$5,245.37
DC	25.13	129,847.6	\$23,328.66
DC	46.64	129,990.9	\$26,111.18
DC	63.08	408,798.8	\$36,522.54
DC	87.74	303,816.0	\$62,937.18
DJ	0.04	263.1	\$23.40
DJ	0.07	295.9	\$31.42
DJ	0.19	928.9	\$64.59
DJ	0.31	1,397.8	\$148.43
DJ	0.42	726.5	\$193.78
DJ	0.65	2,930.1	\$211.64
DJ	0.60	1,552.4	\$324.72
DJ	1.62	3,792.8	\$839.20
DJ	1.81	4,038.4	\$918.05
DJ	2.64	4,911.3	\$1,246.47
DJ	1.83	7,874.2	\$1,288.95
DJ	2.06	13,466.6	\$1,378.18
DJ	2.26	12,746.2	\$1,380.06
DJ	4.77	6,944.6	\$2,066.67
DJ	5.24	23,818.7	\$2,823.23
DJ	5.24	34,343.4	\$3,056.34
DJ	4.25	19,108.4	\$3,070.30
DJ	5.87	16,583.7	\$3,307.03
DJ	8.98	29,626.6	\$5,465.74

DJ 12.76 42,656.1 \$7,819 15 DJ 16.43 37,971.5 \$8,453.02 DJ 15.89 59,567.3 \$10,347.72 DJ 17.40 55,929.4 \$10,448.96 DJ 22.06 45,648.1 \$10,844.92 DJ 16.51 67,854.8 \$11,318.88 DJ 28.02 52,361.5 \$12,181.57 DK 3.56 15,041.5 \$1,823.18 DQ 0.04 263.1 \$23.40 DQ 0.04 263.1 \$23.40 DQ 0.17 764.8 \$75.07 DQ 0.25 280.8 \$100.10 DQ 0.28 1,552.3 \$146.13 DQ 0.51 2,361.4 \$169.47 DQ 0.51 2,361.4 \$169.47 DQ 0.71 3,296.1 \$236.07 DQ 1.43 6,379.6 \$677.59 DQ 1.58 4,566.5 \$898.70	Rate Code	kW Savings	kWh Savings	Incentive
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DQ 3.47 22,753.4 \$2,024.88 DQ 3.17 20,758.4 \$2,124.46 DQ 2.30 19,039.1 \$2,489.58 DQ 4.35 28,503.6 \$2,536.62	DQ	4.37	16,457.6	\$1,854.24
DQ 3.17 20,758.4 \$2,124.46 DQ 2.30 19,039.1 \$2,489.58 DQ 4.35 28,503.6 \$2,536.62	DQ	4.22	19,021.6	\$2,007.79
DQ 2.30 19,039.1 \$2,489.58 DQ 4.35 28,503.6 \$2,536.62	DQ	3.47	22,753.4	\$2,024.88
DQ 4.35 28,503.6 \$2,536.62	DQ	3.17	20,758.4	\$2,124.46
	DQ	2.30	19,039.1	\$2,489.58
DO 4.57 13.184.7 \$2.601.53	DQ	4.35		\$2,536.62
4.07 70,10 mg	DQ	4.57	13,184.7	\$2,601.53

Rate Code	kW Sayings	kWh Savings	Incentive
DQ	6.29	28,603.2	\$2,948.13
DQ	3.51	21,939.0	\$3,121.37
DQ	7.23	21,706.6	\$4,195.66
DQ	8.29	46,762.6	\$4,251.05
DQ	6.93	26 ,102.5	\$5 ,344.20
DQ	11.96	53,445.3	\$5,551.72
DQ	11.90	67,105.4	\$6,446.00
DQ	11.73	37,047.0	\$8,244.64
DQ	23.94	47,067.6	\$11,532.91
DQ	30.28	89,383.6	\$17,425.05
DQ	41.52	107,032.0	\$22,419.02
DQ	35.79	125,963.6	\$28,053.84
DR	-0.01	-47.1	(\$4.74)
DR	0.92	6,139.2	\$623.58
DR	6.65	58,830.2	\$3,779.23
E0	-2.35	-10,610.0	(\$1,051.46)
E0	-0.40	-1,871.6	(\$199.05)
E0	0.08	290.2	\$34.03
E0	0.09	584.7	\$36.45
E0	0.22	1,461.7	\$91.13
E0	0.45	2,923.3	\$182.26
E0	0.26	2,017.4	\$194.08
E0	0.53	3,466.5	\$216.14
E0	0.38	2,474.4	\$220.19
E0	0.77	4,182.1	\$280.66
E0	0.83	3,602.5	\$363.28
E0	1.32	8,631.4	\$538.18
E0	1.23	5,578.0	\$551.53
E0	1.05	8,306.3	\$676.54
E0	1.70	11,107.2	\$692.56
E0	1.53	7,079.5	\$694.68
E0	2.22	10,444.2	\$742.23
E0	1.84	12,052.3	\$751.46

Rate Code	kW Savings	kWh Savings	Incentive
E0	11.26	54,178.9	\$5,447.22
E0	13.89	62,805.4	\$6,225.75
E0	5.52	50,637.0	\$6,441.30
E0	11.46	75,053.7	\$6,679.27
E0	11.53	75,556.4	\$6 , 724 . 02
E0	12.67	83,029.9	\$7,389.08
E0	11.34	49,438.8	\$8,045.74
E0	17.61	79,395.3	\$8,214.27
E0	15.03	44,353.6	\$8,649.44
E0	14.88	97,454.6	\$8,672.77
E0	14.17	103,625.1	\$8,877.23
E0	13.95	109,997.7	\$9,195.03
E0	15.28	120,126.6	\$10,050.27
E0	15.27	100,018.5	\$10,236.15
E0	1.70	77,929.6	\$10,408.66
E0	9.35	68,188.9	\$10,912.77
E0	13.48	75,254.4	\$11,130.03
E0	19.05	42,718.0	\$11,130.40
E0	25.03	113,774.3	\$11,727.54
E0	17.90	141,131.4	\$11,797.57
E0	18.07	142,432.3	\$11,906.36
E0	19.93	155,901.9	\$13,065.21
E0	28.12	127,857.5	\$13,178.28
E0	0.19	108,193.1	\$13,608.25
E0	6.37	91,140.4	\$13,872.01
E0	25.41	166,447.0	\$14,812.62
E0	31.72	144,293.4	\$14,869.57
E0	12.40	85,041.0	\$15,447.40
E0	25.56	178,595.9	\$15,537.22
E0	30.37	127,598.5	\$15,678.09
E0	28.27	185,158.7	\$16,477.91
E0	5.36	119,235.2	\$16,993.05
E0	3.46	132,499.4	\$17,919.24

Rate Code	kW Say in s	kWh Savings	○ Incentive
E0	1.94	8,820.0	\$872.32
E0	1.40	11,002.1	\$919.70
E0	1.60	12,611.0	\$1,027.13
E0	1.87	12,239.8	\$1,089.27
E0	16 .01	123,580.4	\$1,218.77
E0	3.46	14,695.3	\$1,259.53
E0	3.12	11,265.6	\$1,321.43
E0	4.44	20,580.2	\$1,473.91
E0	2.61	17,087.5	\$1,520.68
E0	2.48	19,572.9	\$1,594.14
E0	3.06	20,073.6	\$1,786.42
E0	2.96	23,319.4	\$1,949.36
E0	3.45	22,628.6	\$2,013.79
E0	3.70	6,568.1	\$2,026.20
E0	3.49	25,280.1	\$2,173.10
E0	3.24	25,512.5	\$2,175.82
E0	4.17	27,293.2	\$2,428.92
E0	3.89	30,605.7	\$2,560.53
E0	4.81	31,536.5	\$2,806.57
E0	7.11	46,545.4	\$2,902.17
E0	5.25	34,369.3	\$3,058.65
E0	5.73	37,541.4	\$3,340.94
E0	7.74	33,600.8	\$3,389.11
E0	5.63	40,052.7	\$3,464.07
E0	1.27	32,688.0	\$3,482.77
E0	6.02	39,423.6	\$3,508.45
E0	2.24	32,073.8	\$3,709.48
E0	9.69	34,988.7	\$4,022.72
E0	9.22	41,957.0	\$4,148.59
E0	8.10	14,036.7	\$4,280.35
E0	7.56	49,532.2	\$4,408.05
E0	7.02	45,957.0	\$4,703.35
E0	8.10	53,050.9	\$4,721.20

Rate Code	kW Savings	kWh Savings	Incentive
E0	8.23	53,896.9	\$4,796.25
E0	13.00	124,338.0	\$18,489.56
E0	32.54	117,772.5	\$20,790.83
E0	3.96	156,901.5	\$21,162.40
E0	28.50	224,129.6	\$21,564.30
E0	47.70	216,897.6	\$22,355.61
E0	69.69	302,472.6	\$31,838.48
E0	30.20	244,269.5	\$32,132.77
E0	10.62	233,908.1	\$33,381.07
E0	32.43	166,421.5	\$33,397.17
E0	9.36	264,408.3	\$36,707.38
E0	0.18	319,166.6	\$39,996.92
E0	12.20	282,906.4	\$40,123.26
E0	12.20	282,906.4	\$40,123.26
E0	4.33	311,223.6	\$40,613.14
E0	87.70	395,617.7	\$40,920.14
E0	97.95	425,121.2	\$44,748.81
E0	99.91	454,254.1	\$46,820.70
E0	1.09	379,349.0	\$47,880.63
E0	13.93	379,562.0	\$52,886.18
E0	80.26	631,113.1	\$60,721.47
E0	12.70	454,073.0	\$61,730.30
E0	7.96	427,393.4	\$65,034.96
E0	28.91	447,866.4	\$67,239.68
E0	29.75	451,486.8	\$68,019.04
E0	151.75	994,101.3	\$88,468.32
E0	78.68	498,189.6	\$92,835.06
E0	33.48	731,109.6	\$104,445.68
E0	186.50	1,221,721.8	\$108,725.00
E0	49.28	774,061.6	\$115,947.16
E0	138.60	1,048,527.0	\$162,239.46
EC	1.20	7,876.2	\$700.95
EC	4.34	24,470.5	\$1,614.25

Rate Code	kW Savinis	kWh Savings	Incentive
EC	17.07	34,197.0	\$8,283.95
EC	16.68	93,944.4	\$8,645.03
EJ	2.35	11,621.0	\$1,277.40
EJ	3.81	24,944.7	\$2,219.93
EJ	4.46	11,212.3	\$2,379.76
EJ	4.32	19,92 6 .0	\$3, 16 9.77
EJ	6.58	32,559.0	\$3,719.35
EJ	12.70	44,086.9	\$7,937.56
EJ	12.66	49,537.7	\$8,442.38
EJ	15.16	61,393.1	\$10,306.48
EJ	20.56	51,197.7	\$10,930.89
EJ	21.40	38,984.4	\$11,826.26
EJ	32.52	96,026.8	\$21,217.22
EQ	1.02	2,902.6	\$663.53
EQ	1.45	2,832.4	\$696.94
EQ	1.87	4,764.4	\$1,003.04
EQ	1.86	12,197.6	\$1,085.51
EQ	7.62	58,660.6	\$4,940.53
EQ	13.86	35,576.4	\$7,467.65
EQ	10.98	79,349.4	\$14,185.19
EQ	70.27	179,733.1	\$43,477.19
EQ	19.59	327,287.9	\$47,253.56
K0	-0.01	-91.8	(\$8.04)
K0	4.80	31,448.5	\$2,798.71
K0	4.82	31,568.4	\$2,809.38

Rate Code	kW Savings	kWh Savings	Incentive
KO	6.74	31,220.3	3,669.83
K0	8.24	38,152.2	4,305.48
K0	8.47	55,474.4	4,936.87
K0	11.18	50,815.1	5,026.10
K0	13.91	95,731.4	5,866.17
K0	9.93	78,2 48 .5	6,5 4 1.03
K0	10.01	65,568.2	6,710.05
K0	14.67	65,397.4	6,799.58
K0	12.37	95,909.2	8,060.16
K0	15.06	98,637.3	8,778.06
K0	16.75	131,766.7	12,350.83
K0	29.86	234,814.8	19,645.43
K0	28.44	52,683.3	20,261.17
K0	35.50	232,565.9	20,696.81
K0	36.22	239,970.9	21,268.94
K0	53.39	247,322.8	29,072.86
K0	71.75	325,239.2	33,568.92
K0	9.56	400,234.2	53,774.82
K0	74.33	576,942.7	55,739.72
K0	42.19	692,357.0	71,292.20
K0	39.69	762,381.0	105,337.09
K1	9.56	42,522.2	5,036.67
N0	159.97	1,214,265.7	116,915.12
	11,381.49	67,247,365.3	7,846,175.57