

Electric Product Detailed Technical Assumptions																							Program Forecast Inputs			
Measure Description	High Efficiency Product Assumptions			Baseline Product Assumptions			Economic Assumptions					Stipulated Output							Economic Assumptions		Technical Assumption	2019		2020		
Electric Measure Description	Efficient Product Description / Rating	Efficient Product Consumption (watts)	Efficient Hours of Operation (hrs/yr)	Baseline Product Description / Rating	Baseline Product Consumption (watts)	Baseline Hours of Operation (hrs/yr)	Measure Lifetime (years)	Rebate Amount (\$)	Average Baseline Product Cost (\$)	Incremental Cost of Efficient Product (\$)	Assumed Energy Cost (\$/kWh)	Rebate as a % of Incremental Cost (%)	Increment'l Cost Payback Period w/o Rebate (yrs)	Increment'l Cost Payback Period w/ Rebate (yrs)	Annual Customer kWh Savings (kWh/yr)	Rebated Cost / Cust kWh Saved (\$/kWh)	Rebated Lifetime cost /Cust kWh Saved (\$/kWh)	Customer kW Savings (kW)	Generator Peak kW Savings (kW)	Non-Energy O&M Savings (\$)	Energy O&M Savings (\$)	Coincidence Factor (%)	2019 Participants (-)	2019 Units (-)	2020 Participants (-)	2020 Units (-)
Replace incandescent lamps with LEDs	2 x 11W LED Lamp	22	986	Federal Maximum Wattage Bulb	86	986	5.00	\$9.62	\$0.00	\$9.62	0.12075	100%	1.26	0.00	63	\$0.152	\$0.030	0.06	0.01	\$0.00	\$0.00	13%	7,700	38,500	0	0
Replace incandescent lamps with LEDs	4 x 9W LED Lamp	36	986	Federal Maximum Wattage Bulb	172	986	5.00	\$12.76	\$0.00	\$12.76	0.12075	100%	0.79	0.00	134	\$0.095	\$0.019	0.14	0.02	\$0.00	\$0.00	13%	7,700	38,500	0	0
Replace incandescent lamps with LEDs	2 x 11W LED Lamp	22	986	Federal Maximum Wattage Bulb	86	986	4.00	\$9.62	\$0.00	\$9.62	0.12075	100%	1.26	0.00	63	\$0.152	\$0.038	0.06	0.01	\$0.00	\$0.00	13%	0	0	7,700	38,500
Replace incandescent lamps with LEDs	4 x 9W LED Lamp	36	986	Federal Maximum Wattage Bulb	172	986	4.00	\$12.76	\$0.00	\$12.76	0.12075	100%	0.79	0.00	134	\$0.095	\$0.024	0.14	0.02	\$0.00	\$0.00	13%	0	0	7,700	38,500
Provide new 1.5 gpm showerhead to replace existing 2.5 gpm showerhead in electric DHW heater	1.5 GPM Showerhead	81	8,760	2.5 GPM Showerhead	136	8,760	10.00	\$3.22	\$0.00	\$3.22	0.12075	100%	0.04	0.00	475	\$0.007	\$0.001	0.05	0.04	\$23.16	\$0.00	64%	7,700	2,695	7,700	2,695
Provide Energy Efficient Kitchen Aerator - 1.5 GPM to replace existing 2.2 gpm aerator in home with electric DHW heater	1.5 GPM Kitchen Faucet Aerator	14	8,760	2.2 GPM Kitchen Faucet Aerator	21	8,760	10.00	\$1.22	\$0.00	\$1.22	0.12075	100%	0.12	0.00	59	\$0.021	\$0.002	0.01	0.01	\$2.62	\$0.00	124%	7,700	2,695	7,700	2,695
Provide Energy Efficient Bath Faucet Aerator - 1.0 GPM to replace existing 2.2 gpm aerator in home with electric DHW heater	1.0 GPM Bathroom Faucet Aerator	6	8,760	2.2 GPM Bathroom Faucet Aerator	13	8,760	10.00	\$0.48	\$0.00	\$0.48	0.12075	100%	0.05	0.00	61	\$0.008	\$0.001	0.01	0.01	\$2.97	\$0.00	124%	7,700	2,695	7,700	2,695
Provide Energy Efficient Bath Faucet Aerator - 0.5 GPM to replace existing 2.2 gpm aerator in home with electric DHW heater	0.5 GPM Bathroom Faucet Aerator	3	8,760	2.2 GPM Bathroom Faucet Aerator	13	8,760	10.00	\$0.48	\$0.00	\$0.48	0.12075	100%	0.03	0.00	86	\$0.006	\$0.001	0.01	0.01	\$4.20	\$0.00	124%	0	0	0	0

Gas Product Detailed Technical Assumptions																			Program Forecast Inputs				Stipulated Forecast Inputs			Program Forecast Outputs			Program Forecast Outputs		
Measure Description	High Efficiency Product Assumptions		Baseline Product Assumptions		Life of Product (years)	Economic Assumptions				Stipulated Output				Economic Assumptions		2019		2020		Valid Throughout Filing Period			2019			2020					
	High Efficiency Product Description / Rating	High Efficiency Product Consumption (Dth/yr)	Baseline Product Description / Rating	Baseline Product Consumption (Dth/yr)		Average Rebate Amount	Average Baseline Product Cost	Average Incremental Cost of Efficient Product	Assumed Energy Cost (\$/Dth)	Rebate as a % of Incremental Cost	Incremental Cost Payback Period w/o Rebate	Incremental Cost Payback Period with Rebate	Average Annual Customer Dth Savings	Average rebated cost per Dth Saved	Average rebated Lifetime cost per Dth Saved	Non-Energy O&M Savings	Energy O&M Savings	2019 Participants (-)	2019 Units (-)	2020 Participants (-)	2020 Units (-)	NTG (%)	Installation Rate (%)	Realization Rate (%)	2019 NET Dth (Dth)	2019 Rebate Budget (\$)	2019 Incremental Cost (\$)	2020 NET Dth (Dth)	2020 Rebate Budget (\$)	2020 Incremental Cost (\$)	
Provide new 1.5 gpm showerhead to replace existing 2.5 gpm showerhead in natural gas DHW unit home	1.5 GPM Showerhead	3.0	2.5 GPM Showerhead	5.1	10	\$3.22	\$0.00	\$3.22	\$5.24	100%	0.095	0	2.03	\$1.59	\$0.16	\$23.16	\$0	12,833	35,805	12,833	35,805	100%	-45%	100%	40,866	\$176,282	\$176,282	40,866	\$176,282	\$176,282	
Provide Energy Efficient Kitchen Aerator - 1.5 GPM to replace existing 2.2 gpm aerator in home with natural gas DHW heater	1.5 GPM Kitchen Faucet Aerator	0.5	2.2 GPM Kitchen Faucet Aerator	0.8	10	\$1.22	\$0.00	\$1.22	\$5.24	100%	0.309	0	0.25	\$4.84	\$0.48	\$2.62	\$0.00	12,833	35,805	12,833	35,805	100%	-45%	100%	4,044	\$43,517	\$43,517	4,044	\$43,517	\$43,517	
Provide Energy Efficient Bath Faucet Aerator - 1.0 GPM to replace existing 2.2 gpm aerator in home with natural gas DHW heater	1.0 GPM Bathroom Faucet Aerator	0.2	2.2 GPM Bathroom Faucet Aerator	0.5	10	\$0.48	\$0.00	\$0.48	\$5.24	100%	0.112	0	0.26	\$1.86	\$0.19	\$2.97	\$0.00	12,833	35,805	12,833	35,805	100%	-45%	100%	4,183	\$17,333	\$17,333	4,183	\$17,333	\$17,333	
Provide Energy Efficient Bath Faucet Aerator - 0.5 GPM to replace existing 2.2 gpm aerator in home with gas DHW heater	0.5 GPM Bathroom Faucet Aerator	0.1	2.2 GPM Bathroom Faucet Aerator	0.5	10	\$0.00	\$0.00	\$0.00	\$5.24	#DIV/0!	0.000	0	0.37	\$0.00	\$0.00	\$4.20	\$0.00	0	0	0	0	100%	-45%	100%	0	\$0	\$0	0	\$0	\$0	