

APPENDIX B (RESIDENTIAL MEASURE LIST)
NWN WUTC Advice No. 16-07

Change	PROGRAM CODE	Measure Group	Measure Code	Measure Description	Measure Life	Incentive per Quantity	Incremental (TRC) Cost per Quantity	Savings (Therms) per Quantity	2016 WA-Only			2017 WA-Only			% change in Avoided Cost	Estimated Max Incentive (2016 AC)	Estimated Max Incentive (2017 AC)	Difference in Incentive	Notes	2016 Levelized				2017 Levelized							
									GAS AC per measure	GAS AC per measure	% change in measure	NEBS per Quantity	UCT BCR (2016 AC)	UCT BCR (2017 AC)						% change in UCT	TRC BCR (2016 AC)	TRC BCR (2017 AC)	% change in TRC	Cost (\$ 0.08%)	Cost (\$ 0.53%)	Discount Rate	Discount Rate	Levelized Cost	Levelized Cost		
new MAD	Existing Homes	AERATOR	BYCKAER10B614	Build Your Own Kit, 1.0gpm Bath Aerator Gas 2014	15	\$1.35	\$	1.35	6.9	\$35.40	\$31.58	-11%	\$1.35	\$1.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Sunsets in beginning of 2017	\$185.79	26.22	23.39	-11%	163.84	161.02	-2%	\$0.02	\$0.02	\$0.00	\$0.00
	Existing Homes	AERATOR	BYCKAER10B614	Build Your Own Kit, 1.0gpm Bath Aerator Gas 2014	15	\$1.35	\$	1.35	4.8	\$24.62	\$24.97	-11%	\$1.35	\$1.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Sunsets in beginning of 2017	\$185.79	18.24	16.27	-11%	155.86	153.90	-1%	\$0.03	\$0.03	\$0.00	\$0.00
new MAD	Existing Homes	AERATOR	BYCKAER15K614	Build Your Own Kit, 1.5gpm Kitchen Aerator Gas 2014	15	\$1.85	\$	2.05	4.5	\$23.08	\$20.60	-11%	\$2.05	\$2.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Sunsets in beginning of 2017	\$121.89	12.48	11.13	-11%	70.72	69.51	-2%	\$0.04	\$0.04	\$0.00	\$0.00
	Existing Homes	AERATOR	BYCKAER15K614	Build Your Own Kit, 1.5gpm Kitchen Aerator Gas 2014	15	\$2.05	\$	2.05	2.7	\$13.85	\$12.36	-11%	\$2.05	\$2.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Savings reduction and incentive	\$121.89	6.76	6.03	-11%	66.22	65.49	-1%	\$0.07	\$0.07	\$0.00	\$0.00
new MAD	Existing Homes	AIRSEALING	SFARSEALG13	SF Air Sealing, \$150 Gas 2013	20	\$150.00	\$	150.00	25.53	\$178.20	\$204.46	15%	\$150.00	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.19	1.36	15%	1.19	1.36	15%	\$0.47	\$0.49	\$0.02	\$0.02
	Existing Homes	BOILER	HEGASBOLR	SF Gas Boiler	20	\$100.00	\$	1,100.00	44.44	\$354.91	\$417.05	18%	\$354.91	\$417.05	\$62.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.77	2.09	18%	0.32	0.38	18%	\$0.32	\$0.34	\$0.01
new measure	Existing Homes	CEILINGINSULATE	SFNSKCELG214	SF Attic Insulation/SQFT, Gas Heat, Zone 1 2014	45	\$0.25	\$	0.83	0.62	\$0.55	\$0.67	21%	\$0.25	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	2.00	2.67	21%	0.66	0.80	21%	\$0.27	\$0.29	\$0.02	\$0.02
	Existing Homes	THERMOSTAT	SMARTSTATG	Smart Thermostat Gas Forced Air Furnace	13	\$50.00	\$	100.00	32	\$153.40	\$167.17	9%	\$100.00	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	3.07	3.34	9%	1.53	1.67	9%	\$0.17	\$0.17	\$0.00	\$0.00
new measure	Existing Homes	THERMOSTAT	SFURNACE	Seasonal Savings	1	\$3.00	\$	100.00	17.3	\$6.70	\$6.77	1%	\$3.00	\$3.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Pilot measure, working with Nes	\$0.00	2.23	2.26	1%	2.23	2.26	1%	\$0.18	\$0.18	\$0.00	\$0.00
	Existing Homes	DUCTINSULATE	SFNSDCTG14	SF Duct Insulation, Gas Heat	45	\$100.00	\$	100.00	12.3	\$130.29	\$157.88	21%	\$100.00	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.30	1.58	21%	1.30	1.58	21%	\$0.46	\$0.49	\$0.03	\$0.03
new MAD	Existing Homes	FLOORINSULATE	SFNSFLRG214	SF Floor Insulation/SQFT, Gas Heat, Zone 1 2014	45	\$0.30	\$	1.60	0.04	\$0.42	\$0.51	21%	\$0.42	\$0.51	\$0.09	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.41	1.71	21%	0.26	0.32	21%	\$0.43	\$0.46	\$0.03	\$0.03
	Existing Homes	GASDIVENT	HEGASDIENV0V	SF Direct Vent Gas Heater	18	\$100.00	\$	100.00	47.54	\$302.43	\$340.95	13%	\$100.00	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	3.02	3.41	13%	3.02	3.41	13%	\$0.18	\$0.19	\$0.01	\$0.01
new MAD	Existing Homes	GASFIRE	GASHRTH7074PI	Gas Hearth 70-74 FE w/ IPi	20	\$150.00	\$	38.00	57	\$397.85	\$456.50	15%	\$38.00	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Savings reduced as does not incl	\$0.00	2.65	3.04	15%	10.47	12.01	15%	\$0.21	\$0.22	\$0.01	\$0.01
	Existing Homes	GASFIRE	GASHRTH7074PI	Gas Hearth 70-74 FE w/ IPi	20	\$250.00	\$	17.00	79.4	\$551.66	\$658.14	19%	\$17.00	\$17.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	2.21	2.63	19%	551.66	658.14	19%	\$0.25	\$0.26	\$0.01	\$0.01
new MAD	Existing Homes	GASFIRE	GASHRTH75PI	Gas Hearth 75+ FE w/ IPi	20	\$350.00	\$	3.00	90.9	\$631.57	\$793.46	19%	\$173.00	\$173.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Savings changed, incremental Cc	\$0.00	1.80	2.15	19%	3.65	4.36	19%	\$0.31	\$0.32	\$0.01	\$0.01
	Existing Homes	GASFIRE	GASHRTH75PLUS	Gas Hearth 75+ FE	20	\$250.00	\$	38.00	74	\$514.25	\$613.38	19%	\$38.00	\$38.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Savings reduced as does not incl	\$0.00	2.06	2.45	19%	13.53	16.14	19%	\$0.27	\$0.28	\$0.01	\$0.01
new MAD	Existing Homes	GASFIRE	GASHRTH9WA	Hearth Electronic Ignition	20	\$100.00	\$	105.00	64	\$444.67	\$530.49	19%	\$105.00	\$105.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Electronic ignition savings de-co	\$0.00	4.45	5.30	19%	4.43	5.05	19%	\$0.13	\$0.13	\$0.00	\$0.00
	Existing Homes	GASFURNACE	HEGASFURN0904	Gas Furnace SW WA 90-94% AFUE	25	\$100.00	\$	500.00	60.7	\$482.54	\$590.39	22%	\$482.54	\$500.00	\$17.46	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	4.83	5.90	22%	0.97	1.18	22%	\$0.12	\$0.12	\$0.01	\$0.01
new MAD	Existing Homes	GASFURNACE	HEGASFURN05PLUS	Gas Furnace SW WA 95%+ AFUE	25	\$200.00	\$	950.00	80.7	\$641.54	\$784.92	22%	\$641.54	\$784.92	\$143.38	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	3.21	3.92	22%	0.68	0.83	22%	\$0.18	\$0.19	\$0.01	\$0.01
	Existing Homes	KNEEINSULATE	SFNSKNEG214	SF Knee Wall Insulation/SQFT, Gas Heat, Zone 1 2014	45	\$0.30	\$	1.39	0.05	\$0.53	\$0.64	21%	\$0.53	\$0.64	\$0.11	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.77	2.14	21%	0.38	0.46	21%	\$0.34	\$0.36	\$0.02	\$0.02
new MAD	Existing Homes	LWK	LWKFALLGWA16	Living Wise Kits - SW WA Gas DHW	15	\$18.99	\$	18.99	11.5	\$58.99	\$52.63	-11%	\$18.99	\$18.99	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	New measure	\$0.00	3.11	2.77	-11%	19.56	19.22	-2%	\$0.16	\$0.16	\$0.00	\$0.00
	Existing Homes	SHOWERHEAD	BYCKSHWR175G14	Build Your Own Kit, 1.75gpm Showerhead Gas 2014	15	\$3.38	\$	4.50	11	\$56.43	\$50.34	-11%	\$4.50	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$263.76	16.69	14.89	-11%	71.15	69.80	-2%	\$0.03	\$0.03	\$0.00	\$0.00
new MAD	Existing Homes	SHOWERHEAD	BYCKSHWR175G14	Build Your Own Kit, 1.75gpm Showerhead Gas 2014	15	\$4.50	\$	54.50	8.1	\$41.55	\$37.07	-11%	\$4.50	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	Savings reduction and incentive	\$193.64	9.23	8.24	-11%	22.26	21.27	-2%	\$0.05	\$0.06	\$0.00	\$0.00
	Existing Homes	SHOWERWAND	n/a	Build Your Own Kit, 1.75gpm Showerwand Gas 2016	15	\$28.00	\$	52.00	7	\$35.91	\$32.04	-11%	\$28.00	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	This measure will be researched	\$193.64	1.28	1.14	-11%	8.20	8.06	-2%	\$0.39	\$0.40	\$0.01	\$0.01
new MAD	Existing Homes	SHOWERWAND	n/a	Build Your Own Kit, 2.0gpm Showerwand Gas 2016	15	\$28.00	\$	52.00	7	\$35.91	\$32.04	-11%	\$28.00	\$28.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	This measure will be researched	\$193.64	1.28	1.14	-11%	8.20	8.06	-2%	\$0.39	\$0.40	\$0.01	\$0.01
	Existing Homes	SHOWERVALVE	SHTRVG	Showerhead Thermostatic Restriction Valve, Gas	12	\$20.00	\$	20.00	6.5	\$27.65	\$44.26	-12%	\$20.00	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$107.00	1.38	1.21	-12%	6.73	6.56	-3%	\$0.35	\$0.36	\$0.01	\$0.01
new MAD	Existing Homes	TANKDHW	HEGASDHW6716	Water Heater, Gas, 67-69 \$100 2016	12	\$100.00	\$	200.00	23	\$97.85	\$85.84	-12%	\$97.85	\$85.84	\$12.01	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	0.98	0.86	-12%	0.69	0.43	-12%	\$0.49	\$0.49	\$0.01	\$0.01
	Existing Homes	TANKDHW	HEGASDHW7016	Water Heater, Gas, 70 \$125, 2016	12	\$125.00	\$	430.00	31	\$131.89	\$115.70	-12%	\$131.89	\$115.70	\$16.19	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.06	0.93	-12%	0.31	0.27	-12%	\$0.46	\$0.47	\$0.01	\$0.01
new MAD	Existing Homes	WINDOWS	WINDWS27G	Windows - GAS - U <= 27	45	\$4.00	\$	4.36	0.48	\$5.08	\$6.16	21%	\$4.36	\$4.36	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.27	1.54	21%	1.17	1.41	21%	\$0.47	\$0.51	\$0.03	\$0.03
	Existing Homes	WINDOWS	WINDWS2639G	Windows - GAS - U <= 30	45	\$1.75	\$	1.11	0.2	\$2.12	\$2.57	21%	\$1.11	\$1.11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	1.21	1.47	21%	1.91	2.31	21%	\$0.50	\$0.53	\$0.03	\$0.03
new MAD	New Homes & Products	EPS	SWWAEP1	SW WA EPS Path 1 - 2016	25	\$800.00	\$	671.00	79	\$628.02	\$768.39	22%	\$628.02	\$671.00	\$42.98	\$0.00	\$0.00	\$0.00	\$0.00	Measure will sunset in February	\$119.00	2.09	2.56	22%	1.11	1.32	19%	\$0.27	\$0.28	\$0.01	\$0.01
	New Homes & Products	EPS	SWWAEP2	SW WA EPS Path 2 - 2016	31	\$400.00	\$	1,292.00	120	\$1,088.82	\$1,309.81	25%	\$1,088.82	\$1,292.00	\$203.18	\$0.00	\$0.00	\$0.00	\$0.00	Measure will sunset in February	\$124.00	2.72	3.40	25%	0.94	1.15	22%	\$0.22	\$0.23	\$0.01	\$0.01
new MAD	New Homes & Products	EPS	SWWAEP3	SW WA EPS Path 3 - 2016	35	\$500.00	\$	2,932.00	200	\$1,912.35	\$2,400.62	26%	\$1,912.35	\$2,400.62	\$488.27	\$0.00	\$0.00	\$0.00	\$0.00	Measure will sunset in February	\$412.00	3.82	4.80	26%	0.79	0.96	21%	\$0.15	\$0.16	\$0.01	\$0.01
	New Homes & Products	EPS	SWWAEP4	SW WA EPS Path 4 - 2016	38	\$700.00	\$	8,078.00	243	\$2,412.49	\$3,039.11	26%	\$2,412.49	\$3,039.11	\$626.61	\$0.00	\$0.00	\$0.00	\$0.00	Measure will sunset in February	\$537.00	3.45	4.34	26%	0.37	0.44	21%	\$0.17	\$0.18	\$0.01	\$0.01
new MAD	New Homes & Products	EPS	SWWAEP5	SW WA EPS Path 5 - 2016	39	\$900.00	\$	9,136.00	271	\$2,723.55	\$3,434.77	26%	\$2,723.55	\$3,434.77	\$711.22	\$0.00	\$0.00	\$0.00	\$0.00	Measure will sunset in February	\$544.00	3.03	3.82	26%	0.36	0.44	22%	\$0.20	\$0.21	\$0.01	\$0.01
	New Homes & Products	EPS	SWWAEP1	SW WA EPS Path 1 - 2017	34	\$250.00	\$	860.00	53	\$500.30	\$627.27	25%	\$500.30	\$627.27	\$126.97	\$0.00	\$0.00	\$0.00	\$0.00	New measure - performance bas	\$501.00	2.00	2.51	25%	1.15	1.30	13%	\$0.29	\$0.31	\$0.02	\$0.

Change	Measure Code	Measure Description	Load Profile	Measure Life	Incentive per Quantity	Incremental (TRC) Cost per Quantity	Savings (Therms) per Quantity	2016 WA-Only GAS AC per measure	2017 WA-Only GAS AC per measure	% change in Avoided Cost	Estimated Max Incentive (2016 AC)	Estimated Max Incentive (2017 AC)	Difference in Estimated Max Incentive	Engineer's Notes	NEBs per Quantity	UCT BCR (2016 AC)	UCT BCR (2017 AC)	% change in UCT	TRC BCR (Blended AC)	TRC BCR (WA-only AC)	% Change in TRC	2016 Levelized Cost (5.08% Discount Rate)	2017 Levelized Cost (5.53% Discount Rate)	Variance in Levelized Cost
	AERATORGONLY0P5	Aerator - Gas Hot Water - Bathroom 0.5 GPM or less	RESDHWG	10	3	8.66	19.1	\$70.12	\$60.53	-14%	\$8.66	\$8.66	\$0.00		\$538.06	23.37	20.18	-14%	70.23	69.12	-2%	\$0.02	\$0.02	\$0.00
	AERATORGONLY1P5	Aerator - Gas Hot Water - Kitchen 1.5 GPM or less	RESDHWG	10	3	8.66	7.9	\$29.00	\$25.04	-14%	\$8.66	\$8.66	\$0.00		\$221.56	9.67	8.35	-14%	28.93	28.47	-2%	\$0.05	\$0.05	\$0.00
	BESHWNWDGWA15	ShowerWAND - gas 1.5GPM or less	RESDHWG	10	10	35	7.7	\$28.27	\$24.40	-14%	\$28.27	\$24.40	-\$3.86		\$284.86	2.83	2.44	-14%	8.95	8.84	-1%	\$0.17	\$0.17	\$0.00
	BESTEAMTRAP	Steam Traps - laundry and K-12 schools:Effective January 1, 2016 Schools Only.	GEXPRO	6	250	157.35	111.7	\$243.75	\$210.31	-14%	\$157.35	\$157.35	\$0.00	The max for	\$0.00	0.98	0.84	-14%	1.55	1.34	-14%	\$0.44	\$0.45	\$0.01
Swings changed from 26 to 32, Inc	BEWASHGASPART	Commercial Clothes Washer-Gas Water Heat	GEXPRO	7	80	355	32	\$66.19	\$57.11	-14%	\$66.19	\$57.11	-\$9.08		\$726.64	0.83	0.71	-14%	2.23	2.21	-1%	\$0.43	\$0.44	\$0.01
	COMBOOVGASWA	Gas Combination Ovens	GNEWPRO	12	750	1	290	\$1,222.36	\$1,069.99	-12%	\$1,222.36	\$1,069.99	-\$152.38	The Energy	\$0.00	1.63	1.43	-12%	1,222.36	1,069.99	-12%	\$0.29	\$0.30	\$0.01
	GASSTEAMCOOK	Steam Cooker - Gas	GNEWPRO	12	2600	870	1308	\$5,513.28	\$4,826.01	-12%	\$870.00	\$870.00	\$0.00	The Energy	\$10,769.04	2.12	1.86	-12%	18.72	17.93	-4%	\$0.23	\$0.23	\$0.01
	GFBOIL2500	Boiler > 2,500 kBtuH input	GEXSPHT	35	8	10	2.85	\$27.38	\$32.96	20%	\$10.00	\$10.00	\$0.00		\$0.00	3.42	4.12	20%	2.74	3.30	20%	\$0.17	\$0.18	\$0.01
	GFBOIL300	Boiler > 300 kBtuH input	GEXSPHT	35	10	16	2.85	\$27.38	\$32.96	20%	\$16.00	\$16.00	\$0.00		\$0.00	2.74	3.30	20%	1.71	2.06	20%	\$0.22	\$0.23	\$0.01
	GFBOIL3002500	Boiler ≥ 300, ≤ 2,500 kBtuH input	GEXSPHT	35	9	13	2.85	\$27.38	\$32.96	20%	\$13.00	\$13.00	\$0.00		\$0.00	3.04	3.66	20%	2.11	2.54	20%	\$0.19	\$0.21	\$0.01
	GREENIRPOLY	Infrared (IR) polyethylene greenhouse cover	GEXSPHT	4	0.32	0.1	0.23	\$0.36	\$0.35	-2%	\$0.10	\$0.10	\$0.00	For greenh	\$0.00	1.12	1.10	-2%	3.58	3.52	-2%	\$0.39	\$0.40	\$0.00
	GREENTHCUR	Thermal Curtains Installed on Greenhouses	GEXPRO	10	0.3	1.17	0.41	\$1.49	\$1.29	-14%	\$1.17	\$1.17	\$0.00	For greenh	\$0.00	4.97	4.29	-14%	1.27	1.10	-14%	\$0.10	\$0.10	\$0.00
	GREENUNDERBENCH	Under-bench heating Green house	GEXSPHT	12	1.05	2.19	1.25	\$5.63	\$5.83	3%	\$2.19	\$2.19	\$0.00	For greenh	\$0.00	5.37	5.55	3%	2.57	2.66	3%	\$0.10	\$0.10	\$0.00
	GRNCNTRL	Greenhouse controllers	GEXSPHT	15	0.1	0.58	0.28	\$1.52	\$1.66	9%	\$0.58	\$0.58	\$0.00	For greenh	\$0.00	15.22	16.57	9%	2.62	2.86	9%	\$0.03	\$0.04	\$0.00
	INSATTICGWA	Attic Insulation - Gas heating	GEXSPHT	30	0.6	0.9	0.25	\$2.25	\$2.69	20%	\$0.90	\$0.90	\$0.00		\$0.00	3.75	4.48	20%	2.50	2.99	20%	\$0.16	\$0.17	\$0.01
	INSROOFGFR5R20	Roof Insulation R-5 to R-20 gas heat	GEXSPHT	30	0.3	0.64	0.09	\$0.81	\$0.97	20%	\$0.64	\$0.64	\$0.00		\$0.00	2.70	3.23	20%	1.26	1.51	20%	\$0.22	\$0.23	\$0.01
	INSROOFGWA	Roof Insulation - Gas heating	GEXSPHT	30	0.6	0.64	0.25	\$2.25	\$2.69	20%	\$0.64	\$0.64	\$0.00		\$0.00	3.75	4.48	20%	3.51	4.20	20%	\$0.16	\$0.17	\$0.01
	INSWALLGWA	Wall Insulation - Gas heating	GEXSPHT	30	0.6	1.41	0.16	\$1.44	\$1.72	20%	\$1.41	\$1.41	\$0.00		\$0.00	2.40	2.87	20%	1.02	1.22	20%	\$0.25	\$0.26	\$0.01
	MFSTEAMTRAPWA	Multifamily Steam Traps	GEXPRO	6	100	100	99	\$216.04	\$186.40	-14%	\$100.00	\$100.00	\$0.00		\$0.00	2.16	1.86	-14%	2.16	1.86	-14%	\$0.20	\$0.20	\$0.00
	NCBVD	Boiler Vent Damper	GEXSPHT	12	1000	1500	270	\$1,216.80	\$1,258.50	3%	\$1,216.80	\$1,258.50	\$41.70	The MAD fo	\$0.00	1.22	1.26	3%	0.81	0.84	3%	\$0.42	\$0.43	\$0.01
	NCCONVOVENWA	Convection Oven - Gas - Full Size	GEXPRO	12	600	1	302	\$1,272.94	\$1,114.26	-12%	\$1,272.94	\$1,114.26	-\$158.68	The Energy	\$0.00	2.12	1.86	-12%	1,272.94	1,114.26	-12%	\$0.23	\$0.23	\$0.01
	NCDHWCONDWF	MF Domestic Tank Water Heaters	GEXPRO	18	2.5	4.91	2.21	\$13.15	\$11.81	-10%	\$4.91	\$4.91	\$0.00	Water heat	\$0.00	5.26	4.72	-10%	2.68	2.41	-10%	\$0.10	\$0.10	\$0.00
	NCDHWCONDWA	Domestic Tank Water Heaters	GEXPRO	18	4	5.04	1.37	\$8.15	\$7.32	-10%	\$5.04	\$5.04	\$0.00	Water heat	\$0.00	2.04	1.83	-10%	1.62	1.45	-10%	\$0.25	\$0.26	\$0.01
	NCHVACUNCON	HVAC Unit Heater	GEXSPHT	18	3	5.23	1.05	\$6.68	\$5.23	13%	\$5.23	\$5.23	\$0.00		\$0.00	2.23	2.51	13%	1.28	1.44	13%	\$0.25	\$0.25	\$0.01
	NCIRGASFRY2014	Gas Fryer	GEXPRO	12	800	1120	569	\$2,398.36	\$2,099.39	-12%	\$1,200.00	\$1,200.00	\$0.00	For fryers, v	\$0.00	3.00	2.62	-12%	2.14	1.87	-12%	\$0.16	\$0.16	\$0.00
	NCIRGASGRI	Gas Griddle	GEXPRO	12	500	1492	147	\$619.61	\$542.37	-12%	\$619.61	\$542.37	-\$77.24	The Energy	\$0.00	1.24	1.08	-12%	0.42	0.36	-12%	\$0.39	\$0.40	\$0.01
	NCWAFCON	Warm-Air Furnace < 225 kBtuH input	GEXSPHT	18	3	6.5	0.967	\$6.15	\$6.94	13%	\$6.15	\$6.50	\$0.35	The MAD fo	\$0.00	2.05	2.31	13%	0.95	1.07	13%	\$0.27	\$0.28	\$0.01
New MAD	NCWHEL	Domestic Tankless Water Heaters - Coin Op Laundries	GEXPRO	15	2	5	2.58	\$13.11	\$11.65	-11%	\$3.00	\$3.00	\$0.00	The MAD fo	\$0.00	6.56	5.83	-11%	2.62	2.33	-11%	\$0.08	\$0.08	\$0.00
New MAD	NCWHEL	Domestic Tankless Water Heaters - Food service	GEXPRO	15	2	3.95	0.57	\$2.90	\$2.57	-11%	\$3.00	\$3.00	\$0.00	The MAD fo	\$0.00	1.45	1.29	-11%	0.73	0.65	-11%	\$0.34	\$0.35	\$0.01
New MAD	NCWHEL	Domestic Tankless Water Heaters - Lodging	GEXPRO	15	2	5	1.11	\$5.64	\$5.01	-11%	\$3.00	\$3.00	\$0.00	The MAD fo	\$0.00	2.82	2.51	-11%	1.13	1.00	-11%	\$0.17	\$0.18	\$0.01
	NEW	Greenhouse condensing unit heaters	GEXSPHT	12	5	11.18	6.29	\$28.35	\$29.32	3%	\$11.18	\$11.18	\$0.00		\$0.00	5.67	5.86	3%	2.54	2.62	3%	\$0.09	\$0.09	\$0.00
	NEW	Modulating Boiler Burner installed on Hot Water Boiler (condensing or non-condensing typ	GEXSPHT	20	2	4.02	0.8	\$5.58	\$6.41	15%	\$4.02	\$4.02	\$0.00		\$0.00	2.79	3.20	15%	1.39	1.59	15%	\$0.20	\$0.21	\$0.01
	NEW	Showerhead or Showerwand 1.50gpm Any Commercial Building Except Fitness Center Gas	GEXPRO	10	12	35	9.9	\$36.01	\$31.07	-14%	\$35.00	\$31.07	-\$3.93		\$284.86	3.00	2.59	-14%	9.17	9.03	-2%	\$0.16	\$0.16	\$0.00
	NEW	Showerhead or Showerwand 1.50gpm Fitness Center Gas Water Heating Direct Install	GEXPRO	10	12	35	92.8	\$337.52	\$291.21	-14%	\$35.00	\$35.00	\$0.00		\$5,404.39	28.13	24.27	-14%	164.05	162.73	-1%	\$0.02	\$0.02	\$0.00
	PIPEINSLN	Pipe Insulation - Hot water - Pipe Diameter > 1.5"	GEXPRO	15	2	18.4	4	\$20.33	\$18.07	-11%	\$18.40	\$18.07	-\$0.33	The MAD fo	\$0.00	10.16	9.03	-11%	1.10	0.98	-11%	\$0.05	\$0.05	\$0.00
	PIPEINSLN	Pipe Insulation - Hot water - Pipe Diameter ≤ 1.5"	GEXPRO	15	2	18.4	4	\$20.33	\$18.07	-11%	\$18.40	\$18.07	-\$0.33	The MAD fo	\$0.00	10.16	9.03	-11%	1.10	0.98	-11%	\$0.05	\$0.05	\$0.00
	PIPEINSLN	Pipe Insulation - Low-Pressure Steam (< 15 psig) - Pipe Diameter > 1.5"	GEXPRO	15	4	18.4	9.3	\$47.26	\$42.01	-11%	\$18.40	\$18.40	\$0.00	The MAD fo	\$0.00	11.82	10.50	-11%	2.57	2.28	-11%	\$0.04	\$0.04	\$0.00
	PIPEINSLN	Pipe Insulation - Low-Pressure Steam (< 15 psig) - Pipe Diameter ≤ 1.5"	GEXPRO	15	4	18.4	9.3	\$47.26	\$42.01	-11%	\$18.40	\$18.40	\$0.00	The MAD fo	\$0.00	11.82	10.50	-11%	2.57	2.28	-11%	\$0.04	\$0.04	\$0.00
	PIPEINSLN	Pipe Insulation - Med-Pressure Steam (15–200 psig) - Pipe Diameter > 1.5"	GEXPRO	15	6	14.57	5	\$25.41	\$22.59	-11%	\$14.57	\$14.57	\$0.00	The MAD fo	\$0.00	4.24	3.76	-11%	1.74	1.55	-11%	\$0.12	\$0.12	\$0.00
	PIPEINSLN	Pipe Insulation - Med-Pressure Steam (15–200 psig) - Pipe Diameter ≤ 1.5"	GEXPRO	15	6	14.57	5	\$25.41	\$22.59	-11%	\$14.57	\$14.57	\$0.00	The MAD fo	\$0.00	4.24	3.76	-11%	1.74	1.55	-11%	\$0.12	\$0.12	\$0.00
	RADHEATMODWA	Radiant Heater, Modulating	GEXSPHT	20	10	48.5	11.2	\$78.17	\$89.70	15%	\$48.50	\$48.50	\$0.00	The MAD fo	\$0.00	7.82	8.97	15%	1.61	1.85	15%	\$0.07	\$0.07	\$0.00
	RADHEATNONMODWA	Radiant Heater, Non-Modulating Infrared Natural Gas-Fired Radiant Heater	GEXSPHT	20	6.5	21.61	4.3	\$30.01	\$34.44	15%	\$21.61	\$21.61	\$0.00	The MAD fo	\$0.00	4.62	5.30	15%	1.39	1.59	15%	\$0.12	\$0.13	\$0.00
	STCONHITEMPGASWA	Dishwasher - Single Tank Conveyor - gas high temp	RESDHWG	20	900	3000	508	\$3,346.93	\$3,040.08	-9%	\$3,000.00	\$3,000.00	\$0.00		\$2,003.22	3.72	3.38	-9%	1.78	1.68	-6%	\$0.14	\$0.15	\$0.01
	STCONLOTMPGAS	Dishwasher - Single Tank Conveyor - gas low temp	RESDHWG	20	900	3000	520	\$3,425.99	\$3,111.89	-9%	\$3,000.00	\$3,000.00	\$0.00		\$2,055.25	3.81	3.46	-9%	1.83	1.72	-6%	\$0.14	\$0.15	\$0.01
	STDRUPLOTMPGAS	Dishwasher - Single Tank Door/Upright - gas low temp	RESDHWG	15	900	2000	554	\$2,841.89	\$2,535.54	-11%	\$2,000.00	\$2,000.00	\$0.00		\$1,804.24	3.16	2.82	-11%	2.32	2.17	-7%	\$0.16	\$0.16	\$0.00
	STDUPHITEMPGASWA	Dishwasher - Single Tank Door/Upright - gas high temp	RESDHWG	15	900	2100	405	\$2,077.55	\$1,853.60	-11%	\$2,077.55	\$1,853.60	-\$223.96		\$1,320.96	2.31	2.06	-11%	1.62	1.51	-7%	\$0.22	\$0.22	\$0.01
	THERMRADVAL	Thermostatic Radiator Valves (TRVs), central hydronic or steam systems only (MF only)	GEXSPHT	15	100	215	55	\$298.88	\$325.41	9%	\$215.00	\$215.00	\$0.00		\$0.00	2.99	3.25	9%	1.39	1.51	9%	\$0.18	\$0.18	\$0.01
	UCHITEMPGASWA	Dishwasher - Under counter - gas high temp	RESDHWG	10	600																			