

Table 1		Participation							Energy Savings						
Month	Year	Program Participants							Gross kWh						
		VA		NC		System			VA		NC		System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	System Cum for IRP	VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	System Cum for IRP
January	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
February	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
March	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
April	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
May	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
June	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
July	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
August	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
September	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
October	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
November	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410
December	2018	0		1,632	0		110	1,742	0		3,645,930	0		151,480	3,797,410

Table 2. EM&V Data Incremental by Vintage Year													
	Program Participants					Gross Incremental Energy (kWh)							
		VA IRP			NC IRP	System IRP			VA IRP		NC IRP	System IRP	
2012		1			-	1			2,953		-	2,953	
2013		302			-	302			943,530		-	943,530	
2014		1,116			16	1,132			13,885,142		88,149	13,973,291	
2015		73			78	151			635,097		104,520	739,618	
2016		125			14	139			2,366,988		48,200	2,415,189	
2017		15			2	17			191,896		777,278	969,174	
2018		0			0	0			0		0	0	

Table 3. EM&V Data Annualized by Vintage Year													
	Program Participants					Gross Annualized Energy (kWh/year)							
		VA IRP			NC IRP	System IRP			VA IRP			NC IRP	System IRP
2012		1			-	1			35,433			-	35,433
2013		302			-	302			4,498,061			-	4,498,061
2014		1,116			16	1,132			31,588,249			495,669	32,083,917
2015		73			78	151			667,407			225,418	892,825
2016		125			14	139			6,765,468			270,829	7,036,296
2017		15			2	17			196,549			825,840	1,022,389
2018		0			0	0			0			0	0

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)														
	Program Participants						Gross Energy (kWh) for PPI							
	VA					NC PPI	System	VA					NC PPI	System
2012						-							-	
2013						-							-	
2014						16							88,149	
2015						94							600,189	
2016						108							769,288	
2017						94							1,273,525	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)															
	Program Participants						Gross Energy (kWh)								
			VA IRP			NC IRP			VA IRP			NC IRP			System IRP
2012			1			-		1		2,953			-		2,953
2013			303			-		303		978,963			-		978,963
2014			1,419			16		1,435		18,418,635			88,149		18,506,784
2015			1,492			94		1,586		36,756,839			600,189		37,357,028
2016			1,617			108		1,725		39,156,137			769,288		39,925,425
2017			1,632			110		1,742		43,746,512			1,769,194		45,515,707
2018			1,632			110		1,742		43,751,165			1,817,756		45,568,922

Appendix C.14 Non-residential Energy Audit Program 2012-2018

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Table 1		Capacity Savings							Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW							Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA		NC		System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	System Cum for IRP						
January	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
February	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
March	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
April	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
May	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
June	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
July	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
August	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
September	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
October	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
November	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94
December	2018	0		3,868	0		264	3,382	1,998	1,050	1,939	1.96	1.68	1.94

Table 2. EM&V Data Incremental by Vintage Year						Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant			
	Gross Peak Demand (kW)					kWh/Parti			kW/Partic			
		VA IRP			NC IRP	System IRP	VA	NC	System	VA	NC	System
2012		10			-	10	2,953	-	2,953	10.05	-	10.05
2013		956			-	956	3,124	-	3,124	3.17	-	3.17
2014		2,104			57	2,161	12,442	5,509	12,344	1.89	3.55	1.91
2015		9			38	38	8,700	1,340	4,898	0.12	0.38	0.25
2016		765			31	795	18,936	3,443	17,375	6.12	2.18	5.72
2017		24			147	172	12,793	388,639.10	57,010	1.63	73.60	10.10
2018		0			0	0	-	-	-	-	-	-

Table 3. EM&V Data Annualized by Vintage Year							Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
	Gross Peak Demand (kW)						Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA IRP			NC IRP	System IRP	VA	NC	System	VA	NC	System
2012		10			-	10	35,433	-	35,433	10.05	-	10.05
2013		956			-	956	14,894	-	14,894	3.17	-	3.17
2014		2,104			57	2,161	28,305	30,979	28,343	1.89	3.55	1.91
2015		9			38	38	9,143	2,890	5,913	0.12	0.38	0.25
2016		765			31	795	54,124	19,345	50,621	6.12	2.18	5.72
2017		24			147	172	13,103	412,920	60,141	1.63	73.60	10.10
2018		0			0	0	-	-	-	-	-	-

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)		PPI Energy Savings/Participant							PPI Capacity Savings/Participant		
	Gross Peak Demand (kW)	Gross kWh/Participant							Gross kW/Participant		
		VA		NC PPI		System			VA	NC	System
2012				-		10		-			
2013				-				-			
2014				57			5,509			3.55	
2015				87			6,385			0.92	
2016				117			7,123			1.09	
2017				208			13,548			2.21	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)							IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
	Gross Peak Demand (kW)						Gross kWh/Participant			Gross kW/Participant		
	VA IRP						NC IRP	System IRP	VA	NC	System	VA
2012		10			-	10	2,953	-	2,953	10.05	-	10.05
2013		966			-	966	3,231	-	3,231	3.19	-	3.19
2014		3,070			57	3,127	12,980	5,509	12,897	2.16	3.55	2.18
2015		3,079			87	3,165	24,636	6,385	23,554	2.06	0.92	2.00
2016		3,843			117	3,961	24,215	7,123	23,145	2.38	1.09	2.30
2017		3,868			264	4,132	26,805	16,084	26,128	2.37	2.40	2.37
2018		3,868			264	4,132	26,808	16,525	26,159	2.37	2.40	2.37

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D. NET CUMULATIVE PERFORMANCE INDICATOR TABLES FOR VIRGINIA AND NORTH CAROLINA

Appendix D.1 Residential Income and Age Qualifying Home Improvement Program 2015-2018

PROGRAM: Residential Income and Age Qualifying Home Improvement Program
DSM Phase IV Program
Type: Energy Efficiency
Program Measure Life: 14.0 years (2015-2017); 15.0 years (after 2018)

Table 1		Participation										
Month	Year	Program Participants										
		VA					NC					
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2015	0		0		0			0		0	
February	2015	0		0		0			0		0	
March	2015	0		0		0			0		0	
April	2015	0		0		0			0		0	
May	2015	0		0		0			0		0	
June	2015	0		0		0			0		0	
July	2015	0		0		0			0		0	
August	2015	0		0		0			0		0	
September	2015	0		0		0			0		0	
October	2015	44		44		44			0		0	
November	2015	712		756		756			0		0	
December	2015	767		1,523		1,523			0		0	
January	2016	114		1,637		1,637	0		0		0	
February	2016	224		1,861		1,861	0		0		0	
March	2016	295		2,156		2,156	0		0		0	
April	2016	544		2,700		2,700	0		0		0	
May	2016	319		3,019		3,019	0		0		0	
June	2016	623		3,642		3,642	0		0		0	
July	2016	638		4,280		4,280	20		20	20	3,642	
August	2016	1,891		6,171		6,171	12		32	32	4,300	
September	2016	769		6,940		6,940	9		41	41	6,203	
October	2016	904		7,844		7,844	23		66	66	6,981	
November	2016	1,566		9,410		9,410	37		103	103	7,910	
December	2016	516		9,926		9,926	54		157	157	9,513	
January	2017	428		10,354		10,354	42		199	199	10,083	
February	2017	202		10,556		10,556	16		215	215	10,553	
March	2017	737		11,293		11,293	12		227	227	10,768	
April	2017	507		11,800		11,800	13		240	240	10,995	
May	2017	617		12,417		12,417	6		246	246	11,235	
June	2017	585		13,002		13,002	4		250	250	11,481	
July	2017	443		13,445		13,445	2		252	252	11,731	
August	2017	252		13,697		13,697	4		256	256	11,983	
September	2017	101		13,798		13,798	2		258	258	12,239	
October	2017	513		14,311		14,311	0		258	258	12,497	
November	2017	822		15,133		15,133	7		265	265	12,755	
December	2017	763		15,896		15,896	22		287	287	13,020	
January	2018	2		15,898		15,898	1		288	288	13,307	
February	2018	0		15,898		15,898	0		288	288	13,595	
March	2018	0		15,898		15,898	0		288	288	13,883	
April	2018	0		15,898		15,898	0		288	288	14,171	
May	2018	0		15,898		15,898	0		288	288	14,459	
June	2018	0		15,898		15,898	0		288	288	14,747	
July	2018	0		15,898		15,898	0		288	288	15,035	
August	2018	0		15,898		15,898	0		288	288	15,323	
September	2018	75		15,973		15,973	0		288	288	15,611	
October	2018	100		16,073		16,073	0		288	288	15,899	
November	2018	387		16,460		16,460	0		288	288	16,187	
December	2018	577		17,037		17,037	0		288	288	16,475	

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Appendix D.1 Residential Income and Age Qualifying Home Improvement Program 2015-2018

Table 1		Energy Savings										
Month	Year	Net kWh						NC				
		VA										
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2015	0		0		0						
February	2015	0		0		0						
March	2015	0		0		0				0	0	0
April	2015	0		0		0				0	0	0
May	2015	0		0		0				0	0	0
June	2015	0		0		0				0	0	0
July	2015	0		0		0				0	0	0
August	2015	0		0		0				0	0	0
September	2015	0		0		0				0	0	0
October	2015	1,825		1,825		1,825						1,825
November	2015	43,106		44,931		44,931				0		44,931
December	2015	20,684		65,615		65,615				0		65,615
January	2016	3,631		69,246		69,246	0			0		69,246
February	2016	5,519		74,765		74,765	0			0		74,765
March	2016	11,453		86,218		86,218	0			0		86,218
April	2016	15,292		101,510		101,510	0			0		101,510
May	2016	7,940		109,450		109,450	0			0		109,450
June	2016	17,718		127,168		127,168	0			0		127,168
July	2016	19,386		146,554		146,554	779			779	779	147,333
August	2016	50,978		197,532		197,532	498			1,277	1,277	198,809
September	2016	24,586		222,118		222,118	435			1,712	1,712	223,830
October	2016	22,140		244,258		244,258	998			2,710	2,710	246,969
November	2016	45,168		289,427		289,427	2,372			5,082	5,082	294,509
December	2016	14,555		303,982		303,982	2,010			7,092	7,092	311,023
January	2017	14,682		318,663		318,663	2,738			9,829	9,829	324,443
February	2017	3,927		322,590		322,590	696			10,526	10,526	331,111
March	2017	31,043		353,633		353,633	735			11,260	11,260	342,371
April	2017	14,799		368,432		368,432	475			11,735	11,735	354,106
May	2017	20,750		389,182		389,182	288			12,023	12,023	366,129
June	2017	14,720		403,902		403,902	180			12,203	12,203	378,332
July	2017	9,294		413,196		413,196	121			12,324	12,324	390,656
August	2017	8,028		421,225		421,225	365			12,689	12,689	403,014
September	2017	2,272		423,496		423,496	354			13,043	13,043	416,057
October	2017	12,427		435,924		435,924	0			13,043	13,043	429,100
November	2017	16,075		451,999		451,999	291			13,334	13,334	442,434
December	2017	14,098		466,097		466,097	1,077			14,412	14,412	456,846
January	2018	58		466,156		466,156	48			14,460	14,460	471,306
February	2018	0		466,156		466,156	0			14,460	14,460	485,766
March	2018	0		466,156		466,156	0			14,460	14,460	500,226
April	2018	0		466,156		466,156	0			14,460	14,460	514,686
May	2018	0		466,156		466,156	0			14,460	14,460	529,146
June	2018	0		466,156		466,156	0			14,460	14,460	543,606
July	2018	0		466,156		466,156	0			14,460	14,460	558,066
August	2018	0		466,156		466,156	0			14,460	14,460	572,526
September	2018	1,718		467,874		467,874	0			14,460	14,460	586,986
October	2018	3,662		471,536		471,536	0			14,460	14,460	601,446
November	2018	14,789		486,325		486,325	0			14,460	14,460	615,906
December	2018	9,624		495,949		495,949	0			14,460	14,460	630,366

Appendix D.1 Residential Income and Age Qualifying Home Improvement Program 2015-2018

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Net kW					NC				NC Cum. for Net Lost Revenue (NLR)	System	Net kWh/Participant for IRP			Net kW/Participant for IRP		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2015	0		0		0							-	-	-	-	-	-
February	2015	0		0		0							-	-	-	-	-	-
March	2015	0		0		0				0	0		-	-	-	-	-	-
April	2015	0		0		0				0	0		-	-	-	-	-	-
May	2015	0		0		0				0	0		-	-	-	-	-	-
June	2015	0		0		0				0	0		-	-	-	-	-	-
July	2015	0		0		0				0	0		-	-	-	-	-	-
August	2015	0		0		0				0	0		-	-	-	-	-	-
September	2015	0		0		0				0	0		-	-	-	-	-	-
October	2015	2		2		2				0	2		41	-	41	0.05	-	0.05
November	2015	36		38		38				0	36		59	-	59	0.05	-	0.05
December	2015	26		64		64				0	64		43	-	43	0.04	-	0.04
January	2016	4		68		68	0		0	0	68		42	-	42	0.04	-	0.04
February	2016	9		78		78	0		0	0	78		40	-	40	0.04	-	0.04
March	2016	14		92		92	0		0	0	92		40	-	40	0.04	-	0.04
April	2016	20		112		112	0		0	0	112		38	-	38	0.04	-	0.04
May	2016	10		122		122	0		0	0	122		36	-	36	0.04	-	0.04
June	2016	23		145		145	0		0	0	145		35	-	35	0.04	-	0.04
July	2016	24		169		169	1		1	1	170		34	39	34	0.04	0.05	0.04
August	2016	69		239		239	1		2	2	240		32	40	32	0.04	0.05	0.04
September	2016	28		267		267	1		2	2	269		32	42	32	0.04	0.05	0.04
October	2016	31		297		297	1		3	3	301		31	41	31	0.04	0.05	0.04
November	2016	67		365		365	2		6	6	371		31	49	31	0.04	0.06	0.04
December	2016	18		383		383	2		8	8	391		31	45	31	0.04	0.05	0.04
January	2017	15		398		398	3		11	11	405		31	49	31	0.04	0.06	0.04
February	2017	6		404		404	1		12	12	417		31	49	31	0.04	0.06	0.04
March	2017	29		433		433	1		13	13	430		31	50	32	0.04	0.06	0.04
April	2017	17		450		450	1		13	13	443		31	49	32	0.04	0.06	0.04
May	2017	23		473		473	0		14	14	457		31	49	32	0.04	0.06	0.04
June	2017	17		490		490	0		14	14	471		31	49	31	0.04	0.06	0.04
July	2017	12		502		502	0		14	14	485		31	49	31	0.04	0.06	0.04
August	2017	7		509		509	0		14	14	499		31	50	31	0.04	0.06	0.04
September	2017	3		512		512	0		14	14	513		31	51	31	0.04	0.06	0.04
October	2017	13		526		526	0		14	14	527		30	51	31	0.04	0.06	0.04
November	2017	21		547		547	0		15	15	541		30	50	30	0.04	0.06	0.04
December	2017	18		565		565	1		16	16	555		29	50	30	0.04	0.06	0.04
January	2018	0		565		565	0		16	16	569		29	50	30	0.04	0.05	0.04
February	2018	0		565		565	0		16	16	583		29	50	30	0.04	0.05	0.04
March	2018	0		565		565	0		16	16	597		29	50	30	0.04	0.05	0.04
April	2018	0		565		565	0		16	16	611		29	50	30	0.04	0.05	0.04
May	2018	0		565		565	0		16	16	625		29	50	30	0.04	0.05	0.04
June	2018	0		565		565	0		16	16	639		29	50	30	0.04	0.05	0.04
July	2018	0		565		565	0		16	16	653		29	50	30	0.04	0.05	0.04
August	2018	0		565		565	0		16	16	667		29	50	30	0.04	0.05	0.04
September	2018	2		567		567	0		16	16	681		29	50	30	0.04	0.05	0.04
October	2018	3		569		569	0		16	16	695		29	50	30	0.04	0.05	0.04
November	2018	15		584		584	0		16	16	709		30	50	30	0.04	0.05	0.04
December	2018	9		593		593	0		16	16	723		29	50	29	0.03	0.05	0.04

Appendix D.1 Residential Income and Age Qualifying Home Improvement Program 2015-2018

Table 2. EM&V Data Incremental by Vintage Year

	Program Participants					System IRP
	VA IRP	VA NLR	NC IRP	NC NLR		
2015	1,523	1,523	-	-	1,523	
2016	8,403	8,403	157	157	8,560	
2017	5,970	5,970	130	130	6,100	
2018	1,141	1,141	1	1	1,142	

Table 3. EM&V Data Annualized by Vintage Year

	Program Participants					System IRP
	VA IRP	VA NLR	NC IRP	NC NLR		
2015	1,523	1,523	-	-	1,523	
2016	8,403	8,403	157	157	8,560	
2017	5,970	5,970	130	130	6,100	
2018	1,141	1,141	1	1	1,142	

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)

	Program Participants					System IRP
					NC PPI	
2015					-	
2016					157	
2017					287	
2018					288	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)

	Program Participants					System IRP
	VA IRP	VA NLR	NC IRP	NC NLR		
2015	1,523	1,523	-	-	1,523	
2016	9,926	9,926	157	157	10,083	
2017	15,896	15,896	287	287	16,183	
2018	17,037	17,037	288	288	17,325	

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Appendix D.1 Residential Income and Age Qualifying Home Improvement Program 2015-2018

Table 2. EM&V Data Incremental by Vintage Year

	Net Incremental Energy (kWh)					
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	
2015	112,372	112,372	-	-	112,372	
2016	1,184,845	1,184,845	18,652	18,652	1,203,497	
2017	1,120,561	1,120,561	61,320	61,320	1,181,880	
2018	57,761	57,761	579	579	58,340	

Table 3. EM&V Data Annualized by Vintage Year

	Net Annualized Energy (kWh)					
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	
2015	787,384	787,384	-	-	787,384	
2016	2,860,394	2,860,394	85,103	85,103	2,945,497	
2017	1,945,390	1,945,390	87,835	87,835	2,033,225	
2018	358,220	358,220	579	579	358,799	

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)

	Net Energy (kWh) for PPI					
			NC PPI			
2015			-			
2016			18,652			
2017			146,423			
2018			173,518			

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)

	Net Energy (kWh)					
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	
2015	112,372	112,372	-	-	112,372	
2016	1,972,230	1,972,230	18,652	18,652	1,990,881	
2017	4,768,339	4,768,339	146,423	146,423	4,914,762	
2018	5,650,929	5,650,929	173,518	173,518	5,824,446	

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Appendix D.1 Residential Income and Age Qualifying Home Improvement Program 2015-2018

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Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
	Net Peak Demand (kW)								Net kWh/Participant for IRP			Net kW/Participant for IRP				
	VA IRP		VA NLR		NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System		
2015	64		64		-		-	64	74	-	74	0.04	-	0.04		
2016	318		318		8		8	327	141	119	141	0.04	0.05	0.04		
2017	182		182		7		7	190	188	471.69	194	0.03	0.06	0.03		
2018	28		28		0		0	28	51	579	51	0.02	0.05	0.02		

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant					
	Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP					
			VA IRP			VA NLR			NC IRP			NC NLR	System IRP	VA	NC	System	VA	NC	System
2015			64			64			-			64	64	517	-	517	0.04	-	0.04
2016			318			318			8			8	327	340	542	344	0.04	0.05	0.04
2017			182			182			7			7	190	326	675.66	333	0.03	0.06	0.03
2018			28			28			0			0	28	314	579	314	0.02	0.05	0.02

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant		PPI Capacity Savings/Participant	
	Net Peak Demand (kW)					Net kWh/Participant		Net kW/Participant					
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	VA	NC				
2015	-	-	-	-	-	-	-	-	-				
2016	8	8	8	8	8	119	119	0.05	0.05				
2017	16	16	16	16	16	510	510	0.06	0.06				
2018	16	16	16	16	16	602	602	0.06	0.06				

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
	Net Peak Demand (kW)									Net kWh/Participant			Net kW/Participant			
	VA IRP			VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2015	64			64			-		-	64	74	-	74	0.04	-	0.04
2016	383			383			8		8	391	199	119	197	0.04	0.05	0.04
2017	565			565			16		16	581	300	510	304	0.04	0.06	0.04
2018	593			593			16		16	609	332	602	336	0.03	0.05	0.04

Appendix D.2 Residential Retail LED Lighting Program 2017-2018

PROGRAM: Residential LED Program
DSM Phase VI Program
Type: Energy Efficiency
Program Measure Life: 20.0 years

Table 1		Participation										
Month	Year	Program Participants					NC					System
		New	VA Cum. for IRP (New - Retired) [B] = A + Σ(-A)	VA Cum. for Net Loss Revenue (NLR) (New - Retired Rate Reset Adj.) [F] = E + Σ(-A)	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ(-C retired)	NC Rate Reset Adj. [D]	NC Cum. for Net Loss Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ(-C retired) + D	System Cum for IRP		
December	2016											0
January	2017					0		0		0		0
February	2017					0		0		0		0
March	2017					0		0		0		0
April	2017					0		0		0		0
May	2017					0		0		0		0
June	2017					0		0		0		0
July	2017					0		0		0		0
August	2017					5,018		5,018		5,018		5,018
September	2017					14,683		19,701		19,701		19,701
October	2017					14,758		34,459		34,459		34,459
November	2017					19,836		54,295		54,295		54,295
December	2017					15,966		70,261		70,261		70,261
January	2018					12,482		82,743		82,743		82,743
February	2018					29,279		112,022		112,022		112,022
March	2018					13,614		125,636		125,636		125,636
April	2018					21,629		147,265		147,265		147,265
May	2018					11,552		158,817		158,817		158,817
June	2018					14,694		173,511		173,511		173,511
July	2018					20,050		193,561		193,561		193,561
August	2018					25,185		218,746		218,746		218,746
September	2018					32,534		251,280		251,280		251,280
October	2018					11,899		263,179		263,179		263,179
November	2018					42,003		305,182		305,182		305,182
December	2018					29,315		334,497		334,497		334,497

Table 2. EM&V Data Incremental by Vintage Year						
Program Participants						
	VA NLR		NC IRP		NC NLR	System IRP
2017			70,261		70,261	70,261
2018			264,236		264,236	264,236

Table 3. EM&V Data Annualized by Vintage Year						
Program Participants						
	VA NLR		NC IRP		NC NLR	System IRP
2017			70,261		70,261	70,261
2018			264,236		264,236	264,236

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)						
Program Participants						
			NC PPI			
2017			70,261			
2018			334,497			

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)						
Program Participants						
	VA NLR		NC IRP		NC NLR	System IRP
2017			70,261		70,261	70,261
2018			334,497		334,497	334,497

Appendix D.2 Residential Retail LED Lighting Program 2017-2018

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Table 1		Energy Savings									
Month	Year	Net kWh				IRP				System	
		VA Cum. for Net Revenue (NLR) (New + Retired) Rate Reset Adj.	VA Cum. for Net Revenue (NLR) (New + Retired) Rate Reset Adj.	VA Cum. for Net Revenue (NLR) (New + Retired) Rate Reset Adj.	VA Cum. for Net Revenue (NLR) (New + Retired) Rate Reset Adj.	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Revenue (NLR) (New + Retired) Rate Reset Adj.	NC Rate Reset Adj.	System Cum for IRP	System Cum for IRP
December	2016										
January	2017										
February	2017										
March	2017										
April	2017										
May	2017										
June	2017										
July	2017										
August	2017										
September	2017										
October	2017										
November	2017										
December	2017										
January	2018										
February	2018										
March	2018										
April	2018										
May	2018										
June	2018										
July	2018										
August	2018										
September	2018										
October	2018										
November	2018										
December	2018										

Table 2. EM&V Data Incremental by Vintage Year									
Net Incremental Energy (kWh)									
Year	VA IRP	VA NLR	VA PPI	NC IRP	NC NLR	NC PPI	System IRP	System NLR	System PPI
2017				406,822	406,822	406,822	406,822	406,822	406,822
2018				2,419,705	2,419,705	2,419,705	2,419,705	2,419,705	2,419,705

Table 3. EM&V Data Annualized by Vintage Year									
Net Annualized Energy (kWh)									
Year	VA IRP	VA NLR	VA PPI	NC IRP	NC NLR	NC PPI	System IRP	System NLR	System PPI
2017				1,882,812	1,882,812	1,882,812	1,882,812	1,882,812	1,882,812
2018				5,030,524	5,030,524	5,030,524	5,030,524	5,030,524	5,030,524

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)									
Net Energy (kWh) for PPI									
Year	VA IRP	VA NLR	VA PPI	NC PPI	NC IRP	NC NLR	System IRP	System NLR	System PPI
2017				406,822	406,822	406,822	406,822	406,822	406,822
2018				4,302,517	4,302,517	4,302,517	4,302,517	4,302,517	4,302,517

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)									
Net Energy (kWh)									
Year	VA IRP	VA NLR	VA PPI	NC IRP	NC NLR	NC PPI	System IRP	System NLR	System PPI
2017				406,822	406,822	406,822	406,822	406,822	406,822
2018				4,302,517	4,302,517	4,302,517	4,302,517	4,302,517	4,302,517

Appendix D.2 Residential Retail LED Lighting Program 2017-2018

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Table 1		Capacity Savings									Energy Savings / Participant			Capacity Savings / Participant		
		Net kW									Net kWh/Participant for IRP			Net kW/Participant for IRP		
Month	Year	VA			NC			System			VA	NC	System	VA	NC	System
		VA Cum. for IRP (New+Retired)	VA Cum. for Net Revenue (NLR)	VA Cum. for Net Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
December	2016															
January	2017				0		0			0						
February	2017				0		0			0						
March	2017				0		0			0						
April	2017				0		0			0						
May	2017				0		0			0						
June	2017				0		0			0						
July	2017				0		0			0						
August	2017				15		15			15		2	2		0.00	0.00
September	2017				42		56			56		2	2		0.00	0.00
October	2017				42		99			99		2	2		0.00	0.00
November	2017				60		158			158		2	2		0.00	0.00
December	2017				48		206			206		2	2		0.00	0.00
January	2018				24		230			230		2	2		0.00	0.00
February	2018				59		289			289		2	2		0.00	0.00
March	2018				27		316			316		2	2		0.00	0.00
April	2018				41		357			357		2	2		0.00	0.00
May	2018				23		381			381		2	2		0.00	0.00
June	2018				30		411			411		2	2		0.00	0.00
July	2018				39		450			450		2	2		0.00	0.00
August	2018				48		498			498		2	2		0.00	0.00
September	2018				56		555			555		2	2		0.00	0.00
October	2018				25		580			580		2	2		0.00	0.00
November	2018				79		659			659		2	2		0.00	0.00
December	2018				62		721			721		2	2		0.00	0.00

Table 2. EM&V Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
		VA NLR	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System
2017				206	206	206									
2018				515	515	515									

Table 3. EM&V Data Annualised by Vintage Year										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
		VA NLR	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System
2017				206	206	206				2.7	2.7	2.7	0.00	0.00	0.00
2018				515	515	515				19	19	19	0.00	0.00	0.00

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant			Net kW/Participant		
		NC PPI	NC PPI	NC PPI	NC PPI	NC PPI	VA	NC	System	VA	NC	System	VA	NC	System
2017				206	206	206									
2018				721	721	721									

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant			Net kW/Participant		
		VA NLR	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System
2017				206	206	206				6	6	6	0.00	0.00	0.00
2018				721	721	721				13	13	13	0.00	0.00	0.00

Appendix D.3 Non-residential Lighting Systems and Controls Program 2014-2018

PROGRAM: Non-residential Lighting Systems and Controls
 DSM Phase III Program
 Direct Energy Efficiency
 Program Measures Life: 3-8 years

Table 1		Participation Practices Participants										Energy Savings Net kWh											
		VA					NC							VA					NC				
Month	Year	VA Monthly New	VA Monthly Retired	VA Cans. for BIP (New + Retired)	VA Rate Roster Adj.	VA Cans. for Net Lost Revenue (NLR) (New + Retired + Rate Roster Adj.)	NC Monthly New	NC Monthly Retired	NC Cans. for BIP (New + Retired)	NC Rate Roster Adj.	NC Cans. for Net Lost Revenue (NLR) (New + Retired + Rate Roster Adj.)		VA Monthly New	VA Monthly Retired	VA Cans. for BIP (New + Retired)	VA Rate Roster Adj.	VA Cans. for Net Lost Revenue (NLR) (New + Retired + Rate Roster Adj.)	NC Monthly New	NC Monthly Retired	NC Cans. for BIP (New + Retired)	NC Rate Roster Adj.	NC Cans. for Net Lost Revenue (NLR) (New + Retired + Rate Roster Adj.)	
		[A]	[B]	[C] = [A] + [B]	[D]	[E] = [A] + [B] + [D]	[F]	[G]	[H] = [F] + [D]	[I]	[J] = [F] + [D] + [I]												
January	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
February	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
March	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
April	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
September	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
November	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
December	2014	41	118	159	77	237	11	73	84	1	85	16,087	16,087	16,087	16,087	16,087	16,087	16,087	16,087	16,087	16,087	16,087	
January	2015	38	118	156	77	235	10	73	83	1	84	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	
February	2015	38	118	156	77	235	10	73	83	1	84	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	
March	2015	68	284	352	136	488	1	284	285	0	285	327,593	327,593	327,593	327,593	327,593	327,593	327,593	327,593	327,593	327,593	327,593	
April	2015	71	353	424	167	591	1	353	354	0	354	263,103	263,103	263,103	263,103	263,103	263,103	263,103	263,103	263,103	263,103	263,103	
May	2015	115	467	582	212	794	1	467	468	0	468	317,569	317,569	317,569	317,569	317,569	317,569	317,569	317,569	317,569	317,569	317,569	
June	2015	116	577	693	257	950	1	577	578	0	578	595,790	595,790	595,790	595,790	595,790	595,790	595,790	595,790	595,790	595,790	595,790	
July	2015	79	655	734	282	1,016	1	655	656	0	656	158,971	158,971	158,971	158,971	158,971	158,971	158,971	158,971	158,971	158,971	158,971	
August	2015	127	792	919	345	1,264	1	792	793	0	793	199,810	199,810	199,810	199,810	199,810	199,810	199,810	199,810	199,810	199,810	199,810	
September	2015	278	1,060	1,338	500	1,838	1	1,060	1,061	0	1,061	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	
October	2015	185	1,222	1,407	517	1,924	1	1,222	1,223	0	1,223	448,610	448,610	448,610	448,610	448,610	448,610	448,610	448,610	448,610	448,610	448,610	
November	2015	60	1,284	1,344	11	1,355	11	1,284	1,295	11	1,306	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	
December	2015	79	1,359	1,438	13	1,451	13	1,359	1,372	13	1,385	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	2,469,307	
January	2016	104	1,463	1,567	14	1,581	14	1,463	1,477	14	1,491	255,371	255,371	255,371	255,371	255,371	255,371	255,371	255,371	255,371	255,371	255,371	
February	2016	31	1,516	1,547	15	1,562	15	1,516	1,531	15	1,546	1,723,623	1,723,623	1,723,623	1,723,623	1,723,623	1,723,623	1,723,623	1,723,623	1,723,623	1,723,623	1,723,623	
March	2016	131	1,629	1,760	17	1,777	17	1,629	1,646	17	1,663	3,956,882	3,956,882	3,956,882	3,956,882	3,956,882	3,956,882	3,956,882	3,956,882	3,956,882	3,956,882	3,956,882	
April	2016	71	1,705	1,776	18	1,794	18	1,705	1,723	18	1,741	189,306	189,306	189,306	189,306	189,306	189,306	189,306	189,306	189,306	189,306	189,306	
May	2016	124	1,824	1,948	19	1,967	19	1,824	1,843	19	1,843	2,171,234	2,171,234	2,171,234	2,171,234	2,171,234	2,171,234	2,171,234	2,171,234	2,171,234	2,171,234	2,171,234	
June	2016	131	1,984	2,115	20	2,135	20	1,984	1,994	20	2,014	5,465,509	5,465,509	5,465,509	5,465,509	5,465,509	5,465,509	5,465,509	5,465,509	5,465,509	5,465,509	5,465,509	
July	2016	141	2,125	2,266	21	2,287	21	2,125	2,146	21	2,167	2,154,419	2,154,419	2,154,419	2,154,419	2,154,419	2,154,419	2,154,419	2,154,419	2,154,419	2,154,419	2,154,419	
August	2016	139	2,264	2,403	22	2,425	22	2,264	2,286	22	2,286	4,896,625	4,896,625	4,896,625	4,896,625	4,896,625	4,896,625	4,896,625	4,896,625	4,896,625	4,896,625	4,896,625	
September	2016	66	2,330	2,396	23	2,419	23	2,330	2,353	23	2,376	2,713,973	2,713,973	2,713,973	2,713,973	2,713,973	2,713,973	2,713,973	2,713,973	2,713,973	2,713,973	2,713,973	
October	2016	74	2,404	2,478	24	2,502	24	2,404	2,428	24	2,452	2,595,413	2,595,413	2,595,413	2,595,413	2,595,413	2,595,413	2,595,413	2,595,413	2,595,413	2,595,413	2,595,413	
November	2016	92	2,495	2,587	25	2,612	25	2,495	2,520	25	2,515	2,547,123	2,547,123	2,547,123	2,547,123	2,547,123	2,547,123	2,547,123	2,547,123	2,547,123	2,547,123	2,547,123	
December	2016	66	2,563	2,629	26	2,655	26	2,563	2,589	26	2,615	2,104,614	2,104,614	2,104,614	2,104,614	2,104,614	2,104,614	2,104,614	2,104,614	2,104,614	2,104,614	2,104,614	
January	2017	81	2,643	2,724	27	2,751	27	2,643	2,670	27	2,697	3,917,897	3,917,897	3,917,897	3,917,897	3,917,897	3,917,897	3,917,897	3,917,897	3,917,897	3,917,897	3,917,897	
February	2017	78	2,721	2,799	28	2,827	28	2,721	2,749	28	2,777	2,754,381	2,754,381	2,754,381	2,754,381	2,754,381	2,754,381	2,754,381	2,754,381	2,754,381	2,754,381	2,754,381	
March	2017	98	2,807	2,905	29	2,934	29	2,807	2,836	29	2,865	8,189,279	8,189,279	8,189,279	8,189,279	8,189,279	8,189,279	8,189,279	8,189,279	8,189,279	8,189,279	8,189,279	
April	2017	81	2,888	2,969	30	3,009	30	2,888	2,918	30	2,948	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	
May	2017	87	2,973	3,060	31	3,111	31	2,973	3,004	31	3,034	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	8,831,029	
June	2017	78	3,053	3,131	32	3,163	32	3,053	3,085	32	3,115	9,060,253	9,060,253	9,060,253	9,060,253	9,060,253	9,060,253	9,060,253	9,060,253	9,060,253	9,060,253	9,060,253	
July	2017	66	3,119	3,185	33	3,224	33	3,119	3,152	33	3,181	9,242,475	9,242,475	9,242,475	9,242,475	9,242,475	9,242,475	9,242,475	9,242,475	9,242,475	9,242,475	9,242,475	
August	2017	71	3,196	3,267	34	3,297	34	3,196	3,230	34	3,266	9,621,807	9,621,807	9,621,807	9,621,807	9,621,807	9,621,807	9,621,807	9,621,807	9,621,807	9,621,807	9,621,807	
September	2017	64	3,268	3,332	35	3,363	35	3,268	3,303	35	3,338	10,029,525	10,029,525	10,029,525	10,029,525	10,029,525	10,029,525	10,029,525	10,029,525	10,029,525	10,029,525	10,029,525	
October	2017	79	3,338	3,417	36	3,453	36	3,338	3,374	36	3,410	10,586,961	10,586,961	10,586,961	10,586,961	10,586,961	10,586,961	10,586,961	10,586,961	10,586,961	10,586,961	10,586,961	
November	2017	77	3,395	3,472	37	3,509	37	3,395	3,432	37	3,467	11,035,546	11,035,546	11,035,546	11,035,546	11,035,546	11,035,546	11,035,546	11,035,546	11,035,546	11,035,546	11,035,546	
December	2017	59	3,430	3,489	38	3,527	38	3,430	3,468	38	3,496	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	
January	2018	11	3,443	3,454	39	3,465	39	3,443	3,454	39	3,465	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	11,227,963	
February	2018	10	3,503	3,513	40	3,523	40	3,503	3,513	40	3,523	11,514,349	11,514,349	11,514,349	11,514,349	11,514,349	11,514,349	11,514,349	11,514,349	11,514,349	11,514,349	11,514,349	
March	2018	33	3,535	3,568	41	3,600	41	3,535	3,568	41	3,600	11,679,697	11,679,697	11,679,697	11,679,697	11,679,697	11,679,697	11,679,697	11,679,697	11,679,697	11,679,697	11,679,697	
April	2018	22	3,557	3,579	42	3,601	42	3,557	3,579	42	3,601	11,796,27											

Appendix D.3 Non-residential Lighting Systems and Controls Program 2014-2018

Capacity Savings												Energy Savings / Participant				Capacity Savings / Participant		
Net kW												Net kW/Participant for RFP				Net kW/Participant for RFP		
Month	Year	VA Monthly Max	VA Monthly Reduced	VA Cum. for RFP (New+Retired)	VA Rate Cost Adj.	VA Cum. for Net Lost Revenue (DLR)	NC Monthly Max	NC Monthly Reduced	NC Cum. for RFP (New+Retired)	NC Rate Cost Adj.	NC Cum. for Net Lost Revenue (DLR)	System	VA	NC	System	VA	NC	System
January	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
February	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
March	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
April	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
May	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
June	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
July	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
August	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
September	2014	0	0	0		0	0	0	0		0		-	-	-	-	-	-
October	2014	411	411	411		411	0	0	0		0		1,149	1,149	2,951	2,951	2,951	2,951
November	2014	295	295	334		334	0	0	0		0		1,713	1,713	4,104	4,104	4,104	4,104
December	2014	263	263	699		699	0	0	0		0		2,543	2,543	2,921	2,921	2,921	2,921
January	2015	117	117	816		816	0	0	0		0		1,961	1,961	4,780	4,780	4,780	4,780
February	2015	266	1,100	1,433		1,433	0	0	0		0		2,017	2,017	5,101	5,101	5,101	5,101
March	2015	673	1,794	1,794		1,794	0	0	0		0		3,136	3,136	6,119	6,119	6,119	6,119
April	2015	490	2,257	2,257		2,257	0	0	0		0		2,441	2,441	6,381	6,381	6,381	6,381
May	2015	841	3,098	3,098		3,098	0	0	0		0		2,578	2,578	6,631	6,631	6,631	6,631
June	2015	1,512	4,615	4,615		4,615	0	0	0		0		3,119	3,119	8,001	8,001	8,001	8,001
July	2015	946	5,009	5,009		5,009	0	0	0		0		2,993	2,993	7,651	7,651	7,651	7,651
August	2015	662	5,471	5,471		5,471	0	0	0		0		2,762	2,762	7,101	7,101	7,101	7,101
September	2015	678	6,143	6,143		6,143	15	20	20		20		2,811	2,811	5,801	5,801	5,801	5,801
October	2015	1,114	7,257	7,257		7,257	43	66	66		66		3,171	3,171	5,791	5,791	5,791	5,791
November	2015	264	7,551	7,551		7,551	2	66	66		66		2,354	2,354	5,381	5,381	5,381	5,381
December	2015	630	8,173	8,173		8,173	3	72	72		72		2,386	2,386	5,819	5,819	5,819	5,819
January	2016	741	8,912	8,912		8,912	2	72	72		72		2,381	2,381	6,091	6,091	6,091	6,091
February	2016	536	9,458	9,458		9,458	4	81	81		81		2,418	2,418	6,231	6,231	6,231	6,231
March	2016	804	10,253	10,253		10,253	157	258	258		258		2,429	2,429	6,291	6,291	6,291	6,291
April	2016	525	10,778	10,778		10,778	41	281	281		281		2,499	2,499	6,141	6,141	6,141	6,141
May	2016	758	11,532	11,532		11,532	8	281	281		281		2,422	2,422	6,331	6,331	6,331	6,331
June	2016	1,482	13,014	13,014		13,014	50	317	317		317		3,131	3,131	6,561	6,561	6,561	6,561
July	2016	1,271	14,346	14,346		14,346	14	331	331		331		2,531	2,531	6,701	6,701	6,701	6,701
August	2016	1,325	15,548	15,548		15,548	113	443	443		443		2,903	2,903	6,491	6,491	6,491	6,491
September	2016	785	16,333	16,333		16,333	9	452	452		452		2,633	2,633	7,701	7,701	7,701	7,701
October	2016	664	17,047	17,047		17,047	57	510	510		510		2,663	2,663	7,791	7,791	7,791	7,791
November	2016	1,499	18,546	18,546		18,546	29	510	510		510		2,754	2,754	7,771	7,771	7,771	7,771
December	2016	841	18,973	18,973		18,973	50	553	553		553		2,754	2,754	7,771	7,771	7,771	7,771
January	2017	779	19,716	19,716		19,716	0	553	553		553		2,831	2,831	7,361	7,361	7,361	7,361
February	2017	264	20,379	20,379		20,379	0	553	553		553		2,851	2,851	7,451	7,451	7,451	7,451
March	2017	833	21,112	21,112		21,112	22	618	618		618		3,012	3,012	7,551	7,551	7,551	7,551
April	2017	664	21,775	21,775		21,775	99	657	657		657		2,994	2,994	7,841	7,841	7,841	7,841
May	2017	611	22,387	22,387		22,387	81	738	738		738		3,006	3,006	7,991	7,991	7,991	7,991
June	2017	583	22,944	22,944		22,944	0	738	738		738		2,998	2,998	7,441	7,441	7,441	7,441
July	2017	733	23,663	23,663		23,663	0	738	738		738		2,963	2,963	7,391	7,391	7,391	7,391
August	2017	679	23,738	23,738		23,738	15	754	754		754		3,011	3,011	7,431	7,431	7,431	7,431
September	2017	831	24,295	24,295		24,295	64	830	830		830		3,077	3,077	7,541	7,541	7,541	7,541
October	2017	1,154	25,149	25,149		25,149	3	830	830		830		3,171	3,171	7,711	7,711	7,711	7,711
November	2017	1,074	26,826	26,826		26,826	0	830	830		830		3,251	3,251	7,711	7,711	7,711	7,711
December	2017	487	27,308	27,308		27,308	0	830	830		830		3,274	3,274	7,791	7,791	7,791	7,791
January	2018	93	27,401	27,401		27,401	0	830	830		830		3,271	3,271	7,981	7,981	7,981	7,981
February	2018	438	27,839	27,839		27,839	64	892	892		892		3,288	3,288	7,951	7,951	7,951	7,951
March	2018	1,048	28,079	28,079		28,079	44	936	936		936		3,304	3,304	7,931	7,931	7,931	7,931
April	2018	1,011	28,132	28,132		28,132	3	936	936		936		3,303	3,303	7,931	7,931	7,931	7,931
May	2018	666	28,796	28,796		28,796	0	945	945		945		3,349	3,349	7,931	7,931	7,931	7,931
June	2018	349	29,145	29,145		29,145	3	947	947		947		3,362	3,362	8,001	8,001	8,001	8,001
July	2018	309	29,511	29,511		29,511	111	1,058	1,058		1,058		3,377	3,377	8,101	8,101	8,101	8,101
August	2018	309	29,841	29,841		29,841	0	1,058	1,058		1,058		3,362	3,362	7,941	7,941	7,941	7,941
September	2018	423	30,364	30,364		30,364	0	1,058	1,058		1,058		3,399	3,399	7,921	7,921	7,921	7,921
October	2018	938	31,196	31,196		31,196	14	1,072	1,072		1,072		3,353	3,353	7,891	7,891	7,891	7,891
November	2018	373	31,533	31,533		31,533	0	1,072	1,072		1,072		3,363	3,363	7,871	7,871	7,871	7,871
December	2018	810	32,363	32,363		32,363	533	1,605	1,605		1,605		3,398	3,398	8,401	8,401	8,401	8,401

Appendix D.3 Non-residential Lighting Systems and Controls Program 2014-2018

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Table 2. EM&V Data Incremental by Vintage Year												Net Incremental Energy (kWh)																		
Program Participants																														
		VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014		118		118		-		-		118		426,605		426,605		-		-		426,605		426,605		426,605		426,605		426,605		426,605
2015		1,241		1,241		13		13		1,254		17,706,128		17,706,128		111,408		111,408		111,408		111,408		111,408		111,408		111,408		111,408
2016		1,203		1,203		43		28		1,246		23,490,812		23,490,812		1,192,620		1,192,620		1,192,620		1,192,620		1,192,620		1,192,620		1,192,620		1,192,620
2017		868		868		73		23		891		26,580,861		26,580,861		723,396		723,396		723,396		723,396		723,396		723,396		723,396		723,396
2018		649		649		43		43		692		14,330,571		14,330,571		1,027,040		1,027,040		1,027,040		1,027,040		1,027,040		1,027,040		1,027,040		1,027,040

Table 3. EM&V Data Annualized by Vintage Year												Net Annualized Energy (kWh)																		
Program Participants																														
		VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014		118		118		-		-		118		3,324,785		3,324,785		-		-		3,324,785		3,324,785		3,324,785		3,324,785		3,324,785		3,324,785
2015		1,241		1,241		13		13		1,254		35,579,643		35,579,643		395,028		395,028		395,028		395,028		395,028		395,028		395,028		395,028
2016		1,203		1,203		43		28		1,246		46,113,890		46,113,890		2,333,489		2,333,489		2,333,489		2,333,489		2,333,489		2,333,489		2,333,489		2,333,489
2017		868		868		73		23		891		49,717,225		49,717,225		1,216,685		1,216,685		1,216,685		1,216,685		1,216,685		1,216,685		1,216,685		1,216,685
2018		649		649		43		43		692		31,610,279		31,610,279		3,626,451		3,626,451		3,626,451		3,626,451		3,626,451		3,626,451		3,626,451		3,626,451

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)												Net Energy (kWh) for PPI											
Program Participants																							
						NC PPI																	
2014						-																	
2015						13																	
2016						56																	
2017						76																	
2018						104																	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)												Net Energy (kWh)																		
Program Participants																														
		VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014		118		118		-		-		118		426,605		426,605		-		-		426,605		426,605		426,605		426,605		426,605		426,605
2015		1,359		1,359		13		13		1,372		21,030,913		21,030,913		111,408		111,408		111,408		111,408		111,408		111,408		111,408		111,408
2016		2,562		2,562		56		28		2,618		64,395,240		64,395,240		1,587,648		1,587,648		1,587,648		1,587,648		1,587,648		1,587,648		1,587,648		1,587,648
2017		3,430		3,430		76		51		3,506		111,599,179		111,599,179		3,651,893		3,651,893		3,651,893		3,651,893		3,651,893		3,651,893		3,651,893		3,651,893
2018		4,079		4,079		122		94		4,201		140,066,114		140,066,114		4,972,227		4,972,227		4,972,227		4,972,227		4,972,227		4,972,227		4,972,227		4,972,227

Appendix D.3 Non-residential Lighting Systems and Controls Program 2014-2018

Table 2. EHS&V Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
	VA TRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System		VA	NC	System	VA	NC	System
2014	599	599	-	-	599	3,615	-	3,615	5.92	-	-	-	5.92	-	5.92
2015	7,472	7,472	73	73	7,545	15,108	8,520	15,009	5.92	5.63	6.02	6.02	5.92	5.63	6.02
2016	10,765	10,765	520	277	11,285	19,527	27,735	19,810	8.95	12.10	9.96	9.96	8.95	12.10	9.96
2017	8,771	8,771	284	234	9,005	20,823	24,482	20,454	5.64	10.18	9.96	9.96	5.64	10.18	9.96
2018	2,055	2,055	777	777	2,832	24,081	24,092	24,103	7.79	13.97	8.43	8.43	7.79	13.97	8.43

Table 3. EHS&V Data Annualized by Vintage Year										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
	VA TRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System		VA	NC	System	VA	NC	System
2014	599	599	-	-	599	28,126	-	28,126	5.92	-	-	-	5.92	-	5.92
2015	7,472	7,472	73	73	7,545	20,630	30,387	19,888	6.02	5.63	6.02	6.02	5.92	5.63	6.02
2016	10,765	10,765	520	277	11,285	38,332	54,287	38,882	8.95	12.10	9.96	9.96	8.95	12.10	9.96
2017	8,771	8,771	284	234	9,005	27,428	34,899	27,882	5.64	10.18	9.96	9.96	5.64	10.18	9.96
2018	2,055	2,055	777	777	2,832	40,969	41,197	40,111	7.79	13.97	8.43	8.43	7.79	13.97	8.43

Table 4. EHS&V Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant			Net kW/Participant		
			NC PPI				NC							NC	
2014			-				-							-	
2015			73				8,520							5.63	
2016			593				28,351							10.60	
2017			828				11,405							16.08	
2018			1,551				11,993							14.05	

Table 5. EHS&V Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant			Net kW/Participant		
	VA TRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System		VA	NC	System	VA	NC	System
2014	599	599	-	-	599	3,615	-	3,615	5.92	-	-	-	5.92	-	5.92
2015	8,171	8,171	73	73	8,244	15,435	8,520	15,410	6.01	5.63	6.01	6.01	5.92	5.63	6.01
2016	18,937	18,937	593	277	19,530	24,354	28,351	24,440	7.19	10.60	7.46	7.46	6.01	10.60	7.46
2017	27,128	27,128	828	511	28,130	37,536	43,695	37,787	7.19	10.48	8.32	8.32	6.01	10.48	8.32
2018	12,163	12,163	1,605	1,288	13,451	36,445	40,756	36,687	7.93	13.15	8.09	8.09	6.01	13.15	8.09

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Table 1		Participation Program Participants										Energy Savings Net LTR									
Month	Year	VA		VA Cum. for TRP (New + Retired) [E] = E[A] + E[-C-retired]	VA Rate Asset Adj.	NC		NC Cum. for TRP (New + Retired) [G] = G[C] + G[-C-retired]	NC Rate Asset Adj.	NC Cum. for Net Lost Revenue (MLR) (New + Retired + Rate Asset Adj.) [N] = N[C] + N[-C-retired] + D	System Cost for TRP	VA		VA Cum. for TRP (New + Retired)	VA Rate Asset Adj.	NC		NC Cum. for Net Lost Revenue (MLR) (New + Retired + Rate Asset Adj.)	System Cost for TRP		
		VA Monthly New	VA Monthly Retired			NC Monthly New	NC Monthly Retired					VA Monthly New	VA Monthly Retired			NC Monthly New	NC Monthly Retired				
January	2014	0	0	0		0						0	0	0		0					
February	2014	0	0	0		0						0	0	0		0					
March	2014	0	0	0		0						0	0	0		0					
April	2014	0	0	0		0						0	0	0		0					
May	2014	0	0	0		0						0	0	0		0					
June	2014	0	0	0		0						0	0	0		0					
July	2014	0	0	0		0						0	0	0		0					
August	2014	0	0	0		0						0	0	0		0					
September	2014	0	0	0		0						0	0	0		0					
October	2014	0	0	0		0						0	0	0		0					
November	2014	1	0	1		0						50,347	50,347	50,347		50,347					
December	2014	5	6	6		6						34,644	84,991	84,991		84,991					
January	2015	1	7	8		0						45,791	130,782	130,782		130,782					
February	2015	0	0	0		0						1,891	132,673	132,673		132,673					
March	2015	0	0	0		0						0	86,885	219,558		0					
April	2015	16	23	39		7						172,470	392,043	392,043		253,326	2,314				
May	2015	34	51	85		1						87,052	479,095	479,095		342,404	3,103				
June	2015	16	73	89		0						24,256	503,351	503,351		366,686					
July	2015	26	99	125		0						112,420	615,771	615,771		488,092					
August	2015	2	101	103		0						799	616,570	616,570		488,890					
September	2015	7	108	115		0						133,376	749,946	749,946		618,246					
October	2015	1	112	113		0						43,144	793,090	793,090		667,411					
November	2015	2	113	115		0						36,808	829,898	829,898		684,219					
December	2015	1	120	121		0						36,013	865,911	865,911		720,239					
January	2016	7	127	134		0						20,785	886,696	886,696		755,017					
February	2016	9	136	145		0						19,914	906,610	906,610		774,931					
March	2016	6	141	147		0						12,138	918,748	918,748		787,070					
April	2016	6	148	154		1						141,068	1,059,816	1,059,816		934,037	640				
May	2016	6	153	159		0						53,218	1,113,034	1,113,034		987,255	3,590				
June	2016	12	161	173		0						104,359	1,217,393	1,217,393		1,091,599					
July	2016	7	171	178		0						378	1,255,171	1,255,171		1,069,299	0				
August	2016	12	188	200		0						148,579	1,403,750	1,403,750		1,217,878	374				
September	2016	6	196	202		0						178,828	1,582,578	1,582,578		1,396,366					
October	2016	6	196	202		0						204	1,438,685	1,438,685		1,438,685					
November	2016	6	201	207		0						218	1,460,378	1,460,378		1,460,378					
December	2016	9	209	218		0						218	1,678,596	1,678,596		1,530,325					
January	2017	9	218	227		0						7,215	1,685,811	1,685,811		1,537,540					
February	2017	9	227	236		0						33,247	1,719,058	1,719,058		1,570,787					
March	2017	9	236	245		0						5,038	1,724,096	1,724,096		1,575,825					
April	2017	3	245	248		0						11,989	1,736,085	1,736,085		1,587,815					
May	2017	13	257	270		10						139,193	1,875,278	1,875,278		1,727,010	4,318				
June	2017	23	269	292		11						39,301	1,914,579	1,914,579		1,766,318	25				
July	2017	13	278	291		0						58,700	1,973,279	1,973,279		1,824,488					
August	2017	18	268	286		0						127,036	2,100,315	2,100,315		1,951,524					
September	2017	5	290	295		1						58,800	2,159,115	2,159,115		1,992,527	497				
October	2017	5	295	300		0						24,408	2,183,523	2,183,523		2,016,935	0				
November	2017	10	313	323		0						31,487	2,215,010	2,215,010		2,048,423					
December	2017	1	312	322		0						20,970	2,235,980	2,235,980		2,069,392					
January	2018	6	312	318		0						1,568	2,237,548	2,237,548		2,070,960					
February	2018	10	322	332		0						42,248	2,279,796	2,279,796		2,113,208					
March	2018	3	325	328		1						10,931	2,290,727	2,290,727		2,124,139					
April	2018	7	327	334		0						27,860	2,318,587	2,318,587		2,151,999	8,325				
May	2018	5	337	342		0						28,149	2,346,736	2,346,736		2,180,148					
June	2018	8	341	349		0						78,781	2,425,517	2,425,517		2,258,929					
July	2018	10	351	361		0						59,393	2,484,910	2,484,910		2,318,322					
August	2018	10	361	371		0						237,839	2,722,749	2,722,749		2,556,161					
September	2018	10	368	378		0						46,710	2,769,459	2,769,459		2,602,871					
October	2018	10	381	391		0						45,598	2,815,057	2,815,057		2,648,469					
November	2018	4	383	387		0						6,339	2,821,396	2,821,396		2,654,808					
December	2018	4	387	391		0						17,544	2,838,940	2,838,940		2,672,352					

Appendix D.4 Non-residential Heating and Cooling Efficiency Program 2014-2018

Capacity Revenue											Energy Savings / Participant			Capacity Savings / Participant			
Net kW											Net kW / Participant for IRP			Net kW / Participant for IRP			
Month	Year	VA		NC		System		VA		NC		System		VA		NC	
		VA Monthly Ret	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (MLR)	NC Monthly Ret	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (MLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC
January	2014	0		0		0		0									
February	2014	0		0		0		0									
March	2014	0		0		0		0									
April	2014	0		0		0		0									
May	2014	0		0		0		0									
June	2014	0		0		0		0									
July	2014	0		0		0		0									
August	2014	0		0		0		0									
September	2014	0		0		0		0									
October	2014	0		0		0		0									
November	2014	237		237		237		237					50.347	50.347	236.62		236.62
December	2014	128		365		365		365					14.188	14.188	58.31		58.31
January	2015	0		365		365		365		0			14.185	-	58.31		58.31
February	2015	0		359		359		359		0			13.412	-	12.412		12.412
March	2015	0		359		359		359		0			13.412	-	12.412		12.412
April	2015	495		854		854	16	870		16			1.109	1.109	12.511	8.24	51.2
May	2015	270		1,064		1,064	2	1,066		19			5.007	1.772	5.795	18.67	6.28
June	2015	204		1,268		1,268	0	1,268		19			2.033	1.772	4.898	17.60	2.28
July	2015	232		1,500		1,500	0	1,500		19			8.890	1.772	4.988	15.78	6.28
August	2015	10		1,510		1,510	0	1,510		19			4.801	1.772	4.714	15.37	6.28
September	2015	390		1,900		1,900	0	1,900		19			2.033	1.772	5.111	17.60	6.28
October	2015	189		2,133		2,133	0	2,133		19			5.908	1.772	5.799	15.04	6.28
November	2015	45		2,188		2,188	0	2,188		19			6.124	1.772	6.013	19.10	6.28
December	2015	185		2,373		2,373	0	2,373		19			6.119	1.772	6.013	18.17	6.28
January	2016	54		2,389		2,389	0	2,389		19			5.845	1.772	5.849	15.78	6.28
February	2016	153		2,542		2,542	0	2,542		19			5.548	1.772	5.117	18.47	6.28
March	2016	54		2,596		2,596	0	2,596		19			2.558	1.772	2.575	18.33	6.28
April	2016	189		2,785		2,785	0	2,785		19			5.788	1.489	6.407	18.87	4.80
May	2016	35		2,820		2,820	55	2,875		19			6.485	1.999	6.348	18.35	14.78
June	2016	188		2,977		2,977	10	2,987		83			6.303	3.108	6.230	18.15	11.92
July	2016	96		3,073		3,073	0	3,073		83			6.253	3.108	6.129	17.97	11.92
August	2016	204		3,277		3,277	0	3,277		84			6.803	2.787	6.492	17.81	10.48
September	2016	127		3,404		3,404	0	3,404		84			4.381	2.787	7.169	17.92	10.48
October	2016	103		3,507		3,507	0	3,507		84			3.340	2.787	7.161	17.89	10.48
November	2016	122		3,629		3,629	0	3,629		84			3.268	2.487	7.124	17.86	9.31
December	2016	135		3,764		3,764	0	3,764		1			1.711	-	2.866	17.86	9.31
January	2017	18		3,782		3,782	0	3,782		1			2.844	2.487	7.123	17.99	9.34
February	2017	47		3,829		3,829	0	3,829		1			2.713	2.487	6.871	17.13	9.34
March	2017	6		3,835		3,835	0	3,835		1			6.920	2.487	6.759	16.85	9.34
April	2017	5		3,840		3,840	0	3,840		1			6.612	2.487	6.743	16.81	9.34
May	2017	1,029		4,869		4,869	0	4,869		84			6.484	2.487	6.719	15.68	9.34
June	2017	25		4,894		4,894	27	4,921		-27			7.107	2.852	6.931	10.05	5.89
July	2017	59		4,953		4,953	0	4,953		-27			6.646	2.413	6.472	18.39	5.17
August	2017	5		4,958		4,958	0	4,958		-27			6.414	2.413	6.086	17.81	5.17
September	2017	93		5,051		5,051	-1	5,050		-27			6.307	2.413	6.222	17.21	5.17
October	2017	34		5,085		5,085	-1	5,084		-28			6.254	2.254	6.233	17.88	4.66
November	2017	28		5,113		5,113	0	5,113		-28			6.184	2.254	6.233	17.86	4.66
December	2017	40		5,153		5,153	0	5,153		-28			6.205	2.254	6.118	16.44	4.66
January	2018	0		5,153		5,153	0	5,153		56			6.108	2.254	6.108	16.23	4.66
February	2018	0		5,153		5,153	0	5,153		56			6.312	2.254	6.182	16.42	4.66
March	2018	14		5,167		5,167	43	5,210		-28			6.447	2.254	6.104	15.97	4.66
April	2018	11		5,178		5,178	55	5,233		-27			6.213	2.421	6.072	15.87	5.59
May	2018	19		5,197		5,197	0	5,197		-27			6.174	2.681	6.024	15.57	7.88
June	2018	62		5,259		5,259	0	5,259		-27			6.144	2.681	6.026	15.59	7.88
July	2018	47		5,306		5,306	0	5,306		-27			6.182	2.681	6.018	15.59	7.88
August	2018	151		5,457		5,457	0	5,457		-27			6.139	2.681	6.019	15.09	7.88
September	2018	42		5,499		5,499	0	5,499		-27			6.117	2.681	6.009	14.89	7.88
October	2018	45		5,544		5,544	0	5,544		-28			6.011	2.681	6.008	14.80	7.88
November	2018	30		5,574		5,574	0	5,574		-28			6.567	2.681	6.420	14.53	7.88
December	2018	17		5,591		5,591	0	5,591		-28			6.581	2.681	6.744	14.39	7.88
													6.581	2.681	6.393	14.19	7.88

Appendix D.4 Non-residential Heating and Cooling Efficiency Program 2014-2018

Table 2. EM&V Data Incremental by Vintage Year										Net Incremental Energy (kWh)									
Program Participants																			
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014	6		6		-		-		6		135,338		135,338		-		-		135,338
2015	114		114		3		3		117		3,909,391		3,909,391		44,748		44,748		3,945,139
2016	89		89		6		6		95		4,609,959		4,609,959		123,977		89,092		4,711,036
2017	103		103		3		3		106		2,737,106		2,737,106		38,701		36,107		2,823,011
2018	77		77		3		3		80		1,173,069		1,173,069		122,967		122,967		1,296,036

Table 3. EM&V Data Annualized by Vintage Year										Net Annualized Energy (kWh)									
Program Participants																			
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014	6		6		-		-		6		1,019,894		1,019,894		-		-		1,019,894
2015	114		114		3		3		117		7,790,886		7,790,886		63,801		63,801		7,854,687
2016	89		89		6		6		95		5,533,114		5,533,114		200,650		5,344		5,735,164
2017	103		103		3		3		106		5,354,813		5,354,813		58,080		58,080		5,412,893
2018	77		77		3		3		80		6,873,157		6,873,157		158,042		158,042		7,031,199

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										Net Energy (kWh) for PPI									
Program Participants																			
					NC PPI										NC PPI				
2014					-										-				
2015					3										44,748				
2016					6										123,977				
2017					3										38,701				
2018					3										122,967				

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										Net Energy (kWh)									
Program Participants																			
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014	6		6		-		-		6		135,338		135,338		-		-		135,338
2015	120		120		3		3		123		4,939,284		4,939,284		44,748		44,748		5,028,032
2016	209		209		6		6		215		13,420,739		13,420,739		185,778		182,860		13,603,607
2017	312		312		12		12		324		21,151,050		21,151,050		383,158		42,051		21,534,108
2018	385		385		15		15		400		26,806,577		26,806,577		497,193		140,911		27,244,179

Appendix D.4 Non-residential Heating and Cooling Efficiency Program 2014-2018

Table 2. EHSV Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System		VA	NC	System	VA	NC	System
2014	357	357	-	-	357	22,556	-	22,556	59.51	-	-	59.51	-	-	59.51
2015	1,944	1,944	19	19	1,963	44,224	14,916	59,140	17.05	6.28	16.78	16.78	16.78	16.78	16.78
2016	1,459	1,459	65	65	1,524	51,707	20,329	72,036	16.39	10.88	16.04	16.04	16.04	16.04	16.04
2017	1,363	1,363	20	20	1,383	27,055	12,736	39,791	13.22	9.40	12.54	12.54	12.54	12.54	12.54
2018	398	398	59	59	457	41,230	40,989	82,219	5.17	19.76	5.72	5.72	5.72	5.72	5.72

Table 3. EHSV Data Annualized by Vintage Year										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System		VA	NC	System	VA	NC	System
2014	357	357	-	-	357	185,982	-	185,982	59.51	-	-	59.51	-	-	59.51
2015	1,944	1,944	19	19	1,963	68,341	21,267	89,608	17.05	6.28	16.78	16.78	16.78	16.78	16.78
2016	1,459	1,459	65	65	1,524	107,338	33,775	141,113	16.39	10.88	16.04	16.04	16.04	16.04	16.04
2017	1,363	1,363	20	20	1,383	51,154	18,366	69,520	13.22	9.40	12.54	12.54	12.54	12.54	12.54
2018	398	398	59	59	457	89,262	52,681	141,943	5.17	19.76	5.72	5.72	5.72	5.72	5.72

Table 4. EHSV Data Accumulated through Vintage Year (for PFI)										PFI Energy Savings/Participant			PFI Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant			Net kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System		VA	NC	System	VA	NC	System
2014	357	357	-	-	357	22,556	-	22,556	59.51	-	-	59.51	-	-	59.51
2015	1,944	1,944	19	19	1,963	44,224	14,916	59,140	17.05	6.28	16.78	16.78	16.78	16.78	16.78
2016	1,459	1,459	65	65	1,524	51,707	20,329	72,036	16.39	10.88	16.04	16.04	16.04	16.04	16.04
2017	1,363	1,363	20	20	1,383	27,055	12,736	39,791	13.22	9.40	12.54	12.54	12.54	12.54	12.54
2018	398	398	59	59	457	41,230	40,989	82,219	5.17	19.76	5.72	5.72	5.72	5.72	5.72

Table 5. EHSV Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant			Net kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System		VA	NC	System	VA	NC	System
2014	357	357	-	-	357	22,556	-	22,556	59.51	-	-	59.51	-	-	59.51
2015	2,301	2,301	19	19	2,320	41,301	14,916	56,217	15.17	6.28	16.86	16.86	16.86	16.86	16.86
2016	3,760	3,760	64	64	3,824	64,214	20,642	84,856	17.95	9.34	17.63	17.63	17.63	17.63	17.63
2017	5,123	5,123	54	54	5,177	67,792	25,293	93,085	16.42	4.66	15.98	15.98	15.98	15.98	15.98
2018	5,231	5,231	119	119	5,350	68,917	29,831	98,748	16.18	7.68	13.95	13.95	13.95	13.95	13.95

Appendix D.5 Non-residential Window Film Program 2014-2018

PROGRAM: Non-residential Window Film
 DSM Phase III Program
 Type: Energy Efficiency
 Program Measure Life: 15.0 years

Table 1		Participation										Energy Savings										System Cum for IRP
		Program Participants										Net kWh										
Month	Year	VA		VA Cum. for IRP (New + Retired) (retired)	VA Rate Reset Adj. (B)	NC		NC Cum. for IRP (New + Retired) (retired)	NC Rate Reset Adj. (D)	NC Cum. for NRE Loss Revenue (NLR) (New + Retired + Rate Reset Adj.) (retired) x 8	VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	NC		NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for NRE Loss Revenue (NLR) (New + Retired + Rate Reset Adj.)			
		VA Monthly New (A)	VA Monthly Retired (retired)			NC Monthly New (C)	NC Monthly Retired (retired)															
January	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
February	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
March	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
April	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
May	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
June	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
July	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
August	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
September	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
October	2014	1	1	1	1	1	1	1	1	1	177	177	177	177	177	177	177	177	177			
November	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
December	2014	2	3	5	5	5	5	5	5	5	76,654	76,654	76,654	76,654	76,654	76,654	76,654	76,654	76,654			
January	2015	2	3	5	5	5	5	5	5	5	76,654	76,654	76,654	76,654	76,654	76,654	76,654	76,654	76,654			
February	2015	3	3	6	6	6	6	6	6	6	145	145	145	145	145	145	145	145	145			
March	2015	3	3	9	9	9	9	9	9	9	204,145	204,145	204,145	204,145	204,145	204,145	204,145	204,145	204,145			
April	2015	3	3	12	12	12	12	12	12	12	24	24	24	24	24	24	24	24	24			
May	2015	3	3	15	15	15	15	15	15	15	281	281	281	281	281	281	281	281	281			
June	2015	3	3	18	18	18	18	18	18	18	264	264	264	264	264	264	264	264	264			
July	2015	3	3	21	21	21	21	21	21	21	2	2	2	2	2	2	2	2	2			
August	2015	3	3	24	24	24	24	24	24	24	113	113	113	113	113	113	113	113	113			
September	2015	3	3	27	27	27	27	27	27	27	0	0	0	0	0	0	0	0	0			
October	2015	2	22	24	24	24	24	24	24	24	294	294	294	294	294	294	294	294	294			
November	2015	1	23	25	25	25	25	25	25	25	132	132	132	132	132	132	132	132	132			
December	2015	2	25	27	27	27	27	27	27	27	30	30	30	30	30	30	30	30	30			
January	2016	4	29	33	33	33	33	33	33	33	11,318	11,318	11,318	11,318	11,318	11,318	11,318	11,318	11,318			
February	2016	4	33	37	37	37	37	37	37	37	612	612	612	612	612	612	612	612	612			
March	2016	7	40	47	47	47	47	47	47	47	1,908	1,908	1,908	1,908	1,908	1,908	1,908	1,908	1,908			
April	2016	7	47	54	54	54	54	54	54	54	1,688	1,688	1,688	1,688	1,688	1,688	1,688	1,688	1,688			
May	2016	6	53	60	60	60	60	60	60	60	358	358	358	358	358	358	358	358	358			
June	2016	4	57	61	61	61	61	61	61	61	281	281	281	281	281	281	281	281	281			
July	2016	3	60	64	64	64	64	64	64	64	61	61	61	61	61	61	61	61	61			
August	2016	11	71	72	72	72	72	72	72	72	2,429	2,429	2,429	2,429	2,429	2,429	2,429	2,429	2,429			
September	2016	10	81	81	81	81	81	81	81	81	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315	1,315			
October	2016	7	88	88	88	88	88	88	88	88	81	81	81	81	81	81	81	81	81			
November	2016	6	94	94	94	94	94	94	94	94	1,670	1,670	1,670	1,670	1,670	1,670	1,670	1,670	1,670			
December	2016	11	95	95	95	95	95	95	95	95	94	94	94	94	94	94	94	94	94			
January	2017	4	99	99	99	99	99	99	99	99	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221			
February	2017	3	102	102	102	102	102	102	102	102	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468			
March	2017	4	106	106	106	106	106	106	106	106	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938	7,938			
April	2017	1	107	107	107	107	107	107	107	107	10,276	10,276	10,276	10,276	10,276	10,276	10,276	10,276	10,276			
May	2017	7	114	114	114	114	114	114	114	114	797	797	797	797	797	797	797	797	797			
June	2017	1	115	115	115	115	115	115	115	115	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600			
July	2017	3	118	118	118	118	118	118	118	118	12,911	12,911	12,911	12,911	12,911	12,911	12,911	12,911	12,911			
August	2017	15	133	133	133	133	133	133	133	133	32,799	32,799	32,799	32,799	32,799	32,799	32,799	32,799	32,799			
September	2017	7	140	140	140	140	140	140	140	140	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253			
October	2017	8	148	148	148	148	148	148	148	148	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118			
November	2017	6	154	154	154	154	154	154	154	154	28,160	28,160	28,160	28,160	28,160	28,160	28,160	28,160	28,160			
December	2017	6	154	154	154	154	154	154	154	154	104	104	104	104	104	104	104	104	104			
January	2018	3	157	157	157	157	157	157	157	157	5,014	5,014	5,014	5,014	5,014	5,014	5,014	5,014	5,014			
February	2018	10	167	167	167	167	167	167	167	167	25	25	25	25	25	25	25	25	25			
March	2018	2	168	168	168	168	168	168	168	168	343	343	343	343	343	343	343	343	343			
April	2018	4	173	173	173	173	173	173	173	173	725	725	725	725	725	725	725	725	725			
May	2018	12	185	185	185	185	185	185	185	185	268	268	268	268	268	268	268	268	268			
June	2018	5	191	191	191	191	191	191	191	191	589	589	589	589	589	589	589	589	589			
July	2018	3	194	194	194	194	194	194	194	194	219	219	219	219	219	219	219	219	219			
August	2018	9	203	203	203	203	203	203	203	203	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467			
September	2018	10	213	213	213	213	213	213	213	213	1,148	1,148	1,148	1,148	1,148	1,148	1,148	1,148	1,148			
October	2018	12	225	225	225	225	225	225	225	225	790	790	790	790	790	790	790	790	790			
November	2018	5	231	231	231	231	231	231	231	231	632	632	632	632	632	632	632	632	632			
December	2018	14	245	245	245	245	245	245	245	245	1,231	1,231	1,231	1,231	1,231	1,231	1,231	1,231	1,231			

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Table 1		Capacity Services											General Services / Participant	Capacity Services / Participant				
		Res Low					MC					System	Res Low / Participant for 1SP			MC / Participant for 1SP		
Month	Year	VA Monthly New	VA Monthly Refill	VA Cum. for 1SP (New + Refill)	VA Rate Rent Adj.	VA Cum. for Met Lost Revenue (MLR)	MC Monthly Rent	MC Monthly Refill	MC Cum. for 1SP (New + Refill)	MC Rate Rent Adj.	MC Clinic Refill Rate (New + Refill + Rate Rent Adj.)	System Cum for 1SP	VA	MC	System	VA	MC	System
January	2014	0	0	0		0							-	-	-	-	-	-
February	2014	0	0	0		0							-	-	-	-	-	-
March	2014	0	0	0		0							-	-	-	-	-	-
April	2014	0	0	0		0							-	-	-	-	-	-
May	2014	0	0	0		0							-	-	-	-	-	-
June	2014	0	0	0		0							-	-	-	-	-	-
July	2014	0	0	0		0							-	-	-	-	-	-
August	2014	0	0	0		0							-	-	-	-	-	-
September	2014	0	0	0		0							-	-	-	-	-	-
October	2014	1	1	2		1							-	-	-	-	-	-
November	2014	0	0	0		0							-	-	-	-	-	-
December	2014	186	187	373		187							25,611	25,611	69,171	25,611	25,611	69,171
January	2015	0	0	0		0							15,364	15,364	17,301	15,364	15,364	17,301
February	2015	0	0	0		0							9,623	9,623	7,543	9,623	9,623	7,543
March	2015	0	0	0		0							8,550	8,550	70,841	8,550	8,550	70,841
April	2015	497	497	994		497							25,565	25,565	22,300	25,565	25,565	22,300
May	2015	0	0	0		0							21,630	21,630	52,645	21,630	21,630	52,645
June	2015	1	0	1		0							17,591	17,591	42,841	17,591	17,591	42,841
July	2015	0	0	0		0							16,256	16,256	40,371	16,256	16,256	40,371
August	2015	0	0	0		0							14,619	14,619	36,101	14,619	14,619	36,101
September	2015	0	0	0		0							14,078	14,078	34,300	14,078	14,078	34,300
October	2015	1	0	1		0							12,817	12,817	31,241	12,817	12,817	31,241
November	2015	0	0	0		0							12,260	12,260	29,900	12,260	12,260	29,900
December	2015	0	0	0		0							11,281	11,281	27,511	11,281	11,281	27,511
January	2016	46	46	92		46	0		0		0	0	10,115	10,115	24,591	10,115	10,115	24,591
February	2016	2	2	4		2	0		0		0	0	8,908	8,908	22,291	8,908	8,908	22,291
March	2016	10	10	20		10	0		0		0	0	7,996	7,996	18,651	7,996	7,996	18,651
April	2016	6	6	12		6	0		0		0	0	6,311	6,311	16,091	6,311	6,311	16,091
May	2016	1	1	2		1	0		0		0	0	5,621	5,621	14,211	5,621	5,621	14,211
June	2016	1	0	1		0					0	0	5,231	5,231	12,923	5,231	5,231	12,923
July	2016	0	0	0		0					0	0	4,010	4,010	12,481	4,010	4,010	12,481
August	2016	4	0	4		0					0	0	4,253	4,253	10,716	4,253	4,253	10,716
September	2016	0	0	0		0					0	0	2,765	2,765	9,560	2,765	2,765	9,560
October	2016	0	0	0		0					0	0	3,488	3,488	8,871	3,488	3,488	8,871
November	2016	19	0	19		0					0	0	3,330	3,330	8,500	3,330	3,330	8,500
December	2016	0	0	0		0					0	0	3,285	3,285	8,422	3,285	3,285	8,422
January	2017	7	0	7		0					0	0	3,179	3,179	8,151	3,179	3,179	8,151
February	2017	43	0	43		0					0	0	3,208	3,208	8,371	3,208	3,208	8,371
March	2017	25	0	25		0					0	0	3,161	3,161	8,260	3,161	3,161	8,260
April	2017	34	0	34		0					0	0	3,228	3,228	8,490	3,228	3,228	8,490
May	2017	3	0	3		0					0	0	3,027	3,027	8,060	3,027	3,027	8,060
June	2017	13	0	13		0					0	0	3,037	3,037	8,041	3,037	3,037	8,041
July	2017	44	0	44		0					0	0	3,065	3,065	8,200	3,065	3,065	8,200
August	2017	93	0	93		0					0	0	2,963	2,963	7,999	2,963	2,963	7,999
September	2017	5	0	5		0					0	0	2,821	2,821	7,627	2,821	2,821	7,627
October	2017	23	0	23		0					0	0	2,705	2,705	7,386	2,705	2,705	7,386
November	2017	8	0	8		0					0	0	2,783	2,783	7,241	2,783	2,783	7,241
December	2017	6	0	6		0					0	0	2,783	2,783	7,564	2,783	2,783	7,564
January	2018	15	0	15		0					0	0	2,756	2,756	7,599	2,756	2,756	7,599
February	2018	1	0	1		0					0	0	2,593	2,593	7,114	2,593	2,593	7,114
March	2018	1	0	1		0					0	0	2,562	2,562	7,086	2,562	2,562	7,086
April	2018	2	0	2		0					0	0	2,507	2,507	6,911	2,507	2,507	6,911
May	2018	2	0	2		0					0	0	2,446	2,446	6,680	2,446	2,446	6,680
June	2018	2	0	2		0					0	0	2,275	2,275	6,291	2,275	2,275	6,291
July	2018	1	0	1		0					0	0	2,241	2,241	6,200	2,241	2,241	6,200
August	2018	6	0	6		0					0	0	2,140	2,140	5,985	2,140	2,140	5,985
September	2018	6	0	6		0					0	0	2,045	2,045	5,760	2,045	2,045	5,760
October	2018	3	0	3		0					0	0	1,947	1,947	5,411	1,947	1,947	5,411
November	2018	3	0	3		0					0	0	1,890	1,890	5,280	1,890	1,890	5,280
December	2018	4	0	4		0					0	0	1,790	1,790	4,999	1,790	1,790	4,999

Appendix D.5 Non-residential Window Film Program 2014-2018

Table 2. EMBV Data Incremental by Vintage Year										Net Incremental Energy (kWh)									
Program Participants																			
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014	3		3		-		-		3		77,187		77,187		-		-		77,187
2015	27		27		-		-		27		1,843,118		1,843,118		-		-		1,843,118
2016	70		70		0		0		70		233,235		233,235		0		0		233,235
2017	59		59		0		0		59		669,985		669,985		0		0		669,985
2018	91		91		1		1		92		87,201		87,201		1,505		1,505		88,706

Table 3. EMBV Data Annualized by Vintage Year										Net Annualized Energy (kWh)									
Program Participants																			
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014	3		3		-		-		3		921,980		921,980		-		-		921,980
2015	27		27		-		-		27		2,462,252		2,462,252		-		-		2,462,252
2016	70		70		0		0		70		371,835		371,835		0		0		371,835
2017	59		59		0		0		59		1,387,722		1,387,722		0		0		1,387,722
2018	91		91		1		1		92		136,764		136,764		3,613		3,613		140,376

Table 4. EMBV Data Accumulated through Vintage Year (for PPI)										Net Energy (kWh) for PPI									
Program Participants																			
					NC PPI										NC PPI				
2014																			
2015																			
2016					0										0				
2017					1										1,505				
2018					1										1,505				

Table 5. EMBV Data Accumulated through Vintage Year (for IRP and NLR)										Net Energy (kWh)									
Program Participants																			
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP		VA IRP		VA NLR		NC IRP		NC NLR		System IRP
2014	3		3		-		-		3		77,187		77,187		-		-		77,187
2015	25		25		-		-		25		2,765,099		2,765,099		-		-		2,765,099
2016	95		95		0		0		95		3,617,507		3,617,507		0		0		3,617,507
2017	154		154		0		0		154		4,426,053		4,426,053		0		0		4,426,053
2018	245		245		1		1		246		5,226,001		5,226,001		1,505		1,505		5,227,506

Appendix D.5 Non-residential Window Film Program 2014-2018

Table 2. EMBV Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
	VA IRP		VA NLR		NC IRP		NC NLR	System IRP		VA	NC	System	VA	NC	System
2014	187		187		-		-	187	25,729	-	25,729	62.17	-	62.17	
2015	501		501		-		-	501	83,778	-	83,778	21.78	-	21.78	
2016	112		112		-		-	112	3,332	-	3,332	1.60	-	1.60	
2017	377		377		-		-	377	11,356	-	11,356	6.39	-	6.39	
2018	46		46		0.59		0.59	47	1,505	-	1,505	0.51	0.59	0.51	

Table 3. EMBV Data Annualized by Vintage Year										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
Net Peak Demand (kW)										Net kWh/Participant for IRP			Net kW/Participant for IRP		
	VA IRP		VA NLR		NC IRP		NC NLR	System IRP		VA	NC	System	VA	NC	System
2014	187		187		-		-	187	307,327	-	307,327	62.17	-	62.17	
2015	501		501		-		-	501	1,113,921	-	1,113,921	22.78	-	22.78	
2016	112		112		-		-	112	5,312	-	5,312	1.60	-	1.60	
2017	377		377		-		-	377	23,521	-	23,521	6.39	-	6.39	
2018	46		46		0.59		0.59	47	1,505	3,612.77	1,626	0.51	0.59	0.51	

Table 4. EMBV Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant		PPI Capacity Savings/Participant	
Net Peak Demand (kW)										Net kWh/Participant		Net kW/Participant	
					NC PPI								
2014													
2015													
2016													
2017													
2018					0.59					1,505	3,612.77	0.51	0.59

Table 5. EMBV Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity		
Net Peak Demand (kW)										Net kWh/Participant			Net kW/Participant		
	VA IRP		VA NLR		NC IRP		NC NLR	System IRP		VA	NC	System	VA	NC	System
2014	187		187		-		-	187	25,729	-	25,729	62.17	-	62.17	
2015	688		688		-		-	688	110,604	-	110,604	27.51	-	27.51	
2016	600		600		-		-	600	18,079	-	18,079	6.42	-	6.42	
2017	1,177		1,177		-		-	1,177	28,741	-	28,741	7.64	-	7.64	
2018	1,223		1,223		0.59		0.59	1,223	21,331	1,505.32	21,256	4.99	0.59	4.97	

Appendix D.6 Non-residential Small Business Improvement Program 2016-2018

PROGRAM: Small Business Improvement Program
 DSM Phase V Program
 Type: Energy Efficiency
 Program Measure Life: 14.0 years

Table 3		Participation Program Participants										System Loss for IRP
Month	Year	VA					NC					
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D	
December	2015	0	0	0	0	0	0	0	0	0	0	
January	2016	0	0	0	0	0	0	0	0	0	0	
February	2016	0	0	0	0	0	0	0	0	0	0	
March	2016	0	0	0	0	0	0	0	0	0	0	
April	2016	0	0	0	0	0	0	0	0	0	0	
May	2016	0	0	0	0	0	0	0	0	0	0	
June	2016	0	0	0	0	0	0	0	0	0	0	
July	2016	0	0	0	0	0	0	0	0	0	0	
August	2016	0	0	0	0	0	0	0	0	0	0	
September	2016	0	0	0	0	0	0	0	0	0	0	
October	2016	4	0	4	0	4	0	0	0	0	0	
November	2016	34	0	34	0	34	0	0	0	0	0	
December	2016	29	0	63	0	63	0	0	0	0	0	
January	2017	73	0	140	0	140	0	0	0	0	0	
February	2017	27	0	177	0	177	0	0	0	0	0	
March	2017	92	0	269	0	269	0	0	0	0	0	
April	2017	101	0	370	0	370	0	0	0	0	0	
May	2017	165	0	535	0	535	0	0	0	0	0	
June	2017	101	0	636	0	636	0	0	0	0	0	
July	2017	89	0	725	0	725	0	0	0	0	0	
August	2017	89	0	814	0	814	0	0	0	0	0	
September	2017	40	0	854	0	854	0	0	0	0	0	
October	2017	74	0	928	0	928	0	0	0	0	0	
November	2017	38	0	966	0	966	0	0	0	0	0	
December	2017	38	0	1,004	0	1,004	0	0	0	0	0	
January	2018	28	0	1,032	0	1,032	0	0	0	0	0	
February	2018	77	0	1,109	0	1,109	0	0	0	0	0	
March	2018	36	0	1,145	0	1,145	0	0	0	0	0	
April	2018	37	0	1,182	0	1,182	0	0	0	0	0	
May	2018	38	0	1,220	0	1,220	0	0	0	0	0	
June	2018	65	0	1,285	0	1,285	0	0	0	0	0	
July	2018	36	0	1,321	0	1,321	0	0	0	0	0	
August	2018	47	0	1,368	0	1,368	0	0	0	0	0	
September	2018	33	0	1,401	0	1,401	0	0	0	0	0	
October	2018	54	0	1,455	0	1,455	0	0	0	0	0	
November	2018	35	0	1,490	0	1,490	0	0	0	0	0	
December	2018	24	0	1,514	0	1,514	0	0	0	0	0	

Table 3. EMBV Data Incremental by Vintage Year		Program Participants					System IRP
Year	Vintage	VA IRP		VA NLR		NC IRP	
		VA IRP	VA NLR	VA IRP	VA NLR	NC IRP	NC NLR
2016	2016	67	67	67	67	7	7
2017	2017	937	937	937	937	7	7
2018	2018	510	510	510	510	36	36

Table 3. EMBV Data Annualized by Vintage Year		Program Participants					System IRP
Year	Vintage	VA IRP		VA NLR		NC IRP	
		VA IRP	VA NLR	VA IRP	VA NLR	NC IRP	NC NLR
2016	2016	67	67	67	67	7	7
2017	2017	937	937	937	937	7	7
2018	2018	510	510	1,447	1,447	36	43

Table 4. EMBV Data Accumulated through Vintage Year (for PPI)		Program Participants					System IRP
Year	Vintage	VA IRP		VA NLR		NC PPI	
		VA IRP	VA NLR	VA IRP	VA NLR	NC PPI	NC NLR
2016	2016	67	67	67	67	7	7
2017	2017	937	937	937	937	7	7
2018	2018	510	510	1,447	1,447	43	43

Table 5. EMBV Data Accumulated through Vintage Year (for IRP and NLR)		Program Participants					System IRP
Year	Vintage	VA IRP		VA NLR		NC IRP	
		VA IRP	VA NLR	VA IRP	VA NLR	NC IRP	NC NLR
2016	2016	67	67	67	67	7	7
2017	2017	1,004	1,004	1,004	1,004	7	7
2018	2018	1,514	1,514	1,514	1,514	43	43

Appendix D.6 Non-residential Small Business Improvement Program 2016-2018

Table 3		Energy Savings										System (Net Stp-IRP)	
		Net kWh				NC							
		VA											
Month	Year	VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
December	2015												
January	2016	0		0		0	0		0		0		
February	2016	0		0		0	0		0		0		
March	2016	0		0		0	0		0		0		
April	2016	0		0		0	0		0		0		
May	2016	0		0		0	0		0		0		
June	2016	0		0		0	0		0		0		
July	2016	0		0		0	0		0	0	0		
August	2016	0		0		0	0		0	0	0		
September	2016	0		0		0	0		0	0	0		
October	2016	3,202		3,202		3,202	0		0		0		
November	2016	10,451		14,153		14,153	0		0		0		
December	2016	36,750		50,902		50,902	0		0		0		
January	2017	66,459		117,361		117,361	0		0		0		
February	2017	24,535		141,896		141,896	0		0		0		
March	2017	98,470		240,365		240,365	0		0		0		
April	2017	69,281		309,646		309,646	0		0		0		
May	2017	133,180		442,826		442,826	0		0		0		
June	2017	97,421		540,247		540,247	1,049		1,049		1,049		
July	2017	117,863		658,050		658,050	3,582		5,031		5,031		
August	2017	104,019		762,069		762,069	0		5,031		5,031		
September	2017	93,147		855,216		855,216	0		5,031		5,031		
October	2017	167,604		1,022,821		1,022,821	0		5,031		5,031		
November	2017	99,941		1,122,762		1,122,762	0		5,031		5,031		
December	2017	67,313		1,190,075		1,190,075	7,873		12,904		12,904		
January	2018	64,722		1,254,797		1,254,797	0		12,904		12,904		
February	2018	144,592		1,399,389		1,399,389	2,563		15,467		15,467		
March	2018	80,223		1,479,612		1,479,612	1,746		17,613		17,613		
April	2018	86,331		1,565,943		1,565,943	2,643		20,256		20,256		
May	2018	52,809		1,618,752		1,618,752	17,548		37,805		37,805		
June	2018	431,732		2,050,485		2,050,485	17,101		54,905		54,905		
July	2018	51,128		2,101,613		2,101,613	8,161		63,066		63,066		
August	2018	50,638		2,152,251		2,152,251	0		63,066		63,066		
September	2018	55,251		2,207,502		2,207,502	0		63,066		63,066		
October	2018	101,831		2,309,334		2,309,334	25,389		88,375		88,375		
November	2018	70,766		2,380,100		2,380,100	0		88,375		88,375		
December	2018	49,891		2,429,991		2,429,991	2,085		90,460		90,460		

Table 2. ENB/V Data Incremental by Vintage Year								
	Net Incremental Energy (kWh)							
	VA IRP		VA NLR		NC IRP		NC NLR	System IRP
2016	68,256		68,256					68,256
2017	6,792,509		6,792,509		39,109		39,109	6,831,618
2018	8,668,870		8,668,870		460,906		460,906	5,129,776

Table 3. EMRV Data Annualized by Vintage Year	Table 3. EMRV Data Annualized by Vintage Year									
	Net Annualized Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2016		610,825		610,825		-	-	610,825		
2017		13,670,074		13,670,074		154,851	154,851	13,824,925		
2018		14,878,990		14,878,990		930,665	930,665	15,809,655		

Table 4. EMBV Data Accumulated through Vintage Year (for PPI)		Net Energy (kWh) for PPI					
		NC PPI					
2016							
2017						39,109	
2018						615,758	

Table 5. EMBV Data Accumulated through Vintage Year (for IRP and NLR)		Net Energy (kWh)							
		VA IRP		VA NLR		NC IRP		NC NLR	System IRP
2016		68,256		68,256		-		-	68,256
2017		7,403,334		7,403,334		39,109		39,109	7,442,443
2018		22,949,769		22,949,769		615,758		615,758	23,565,527

Appendix D.6 Non-residential Small Business Improvement Program 2016-2018

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant		
		Net kW										Net kWh/Participant for IRP			Net kW/Participant for IRP		
		VA					NC										
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Ratio Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New+Retired)	NC Ratio Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New+Retired+Ratio Reset Adj.)	System Net kW for IRP			VA		
Month	Year											VA	NC	System	VA	NC	System
December	2016																
January	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
February	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
March	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
April	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
May	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
June	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
July	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
August	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
September	2016	0	0	0		0	0	0	0		0	-	-	-	-	-	-
October	2016	6	0	6		6	0	0	0		0	890	-	890	1.54	-	1.54
November	2016	17	0	24		24	0	0	0		0	172	-	172	0.62	-	0.62
December	2016	99	0	127		127	0	0	0		0	172	-	172	1.83	-	1.83
January	2017	162	0	285		285	0	0	0		0	838	-	838	2.03	-	2.03
February	2017	61	0	346		346	0	0	0		0	802	-	802	1.95	-	1.95
March	2017	263	0	609		609	0	0	0		0	894	-	894	2.26	-	2.26
April	2017	186	0	794		794	0	0	0		0	837	-	837	2.14	-	2.14
May	2017	302	0	1,092		1,092	0	0	0		0	828	-	828	2.05	-	2.05
June	2017	252	0	1,347		1,347	0	0	0		0	849	-	849	2.12	-	2.12
July	2017	294	0	1,645		1,645	7	0	7		7	908	-	912	2.27	-	2.27
August	2017	280	0	1,925		1,925	7	0	7		7	936	-	940	2.37	-	2.37
September	2017	248	0	2,173		2,173	7	0	7		7	1,081	-	1,085	2.54	-	2.54
October	2017	388	0	2,561		2,561	7	0	7		7	1,102	-	1,105	2.76	-	2.76
November	2017	280	0	2,821		2,821	7	0	7		7	1,152	-	1,155	2.92	-	2.92
December	2017	183	0	3,004		3,004	24	0	30		30	1,185	-	1,190	2.99	-	2.99
January	2018	178	0	3,182		3,182	0	0	30		30	1,216	-	1,220	3.08	-	3.08
February	2018	357	0	3,538		3,538	4	0	34		34	1,262	-	1,267	3.19	-	3.19
March	2018	193	0	3,731		3,731	7	0	41		41	1,292	-	1,297	3.28	-	3.28
April	2018	208	0	3,929		3,929	7	0	48		48	1,325	-	1,331	3.33	-	3.33
May	2018	131	0	4,070		4,070	49	0	98		98	1,327	-	1,344	3.34	-	3.34
June	2018	1,154	0	5,224		5,224	45	0	143		143	1,396	-	1,411	4.07	-	4.07
July	2018	130	0	5,380		5,380	19	0	162		162	1,591	-	1,601	4.06	-	4.06
August	2018	140	0	5,500		5,500	0	0	162		162	1,573	-	1,584	4.02	-	4.02
September	2018	127	0	5,627		5,627	0	0	162		162	1,576	-	1,588	4.02	-	4.02
October	2018	269	0	5,896		5,896	87	0	230		230	1,587	-	1,604	4.05	-	4.05
November	2018	190	0	6,087		6,087	0	0	230		230	1,597	-	1,611	4.08	-	4.08
December	2018	149	0	6,236		6,236	5	0	234		234	1,605	-	1,619	4.12	-	4.12

Table 2. EMBV Data Incremental by Vintage Year		Incremental Energy Savings/Participant										Incremental Capacity Savings/Participant		
		Net Peak Demand (kW)										Net kWh/Participant for IRP		
		VA IRP					NC NLR					VA		
Year												VA	NC	System
2016		127										1,019	-	1,019
2017		2,881										7,249	-	7,249
2018		3,232										16,998	-	16,998

Table 3. EMBV Data Annualized by Vintage Year		Annualized Energy Savings/Participant										Annualized Capacity Savings/Participant		
		Net Peak Demand (kW)										Net kWh/Participant for IRP		
		VA IRP					NC NLR					VA		
Year												VA	NC	System
2016		127										9,117	-	9,117
2017		2,881										14,589	-	14,589
2018		3,232										29,174	-	29,174

Table 4. EMBV Data Accumulated through Vintage Year (for PPI)		PPI Energy Savings/Participant										PPI Capacity Savings/Participant		
		Net Peak Demand (kW)										Net kWh/Participant		
		NC PPI					NC					VA		
Year												VA	NC	System
2016														
2017														
2018														

Table 5. EMBV Data Accumulated through Vintage Year (for IRP and NLR)		IRP Energy Savings/Participant										IRP Capacity Savings/Participant		
		Net Peak Demand (kW)										Net kWh/Participant		
		VA IRP					NC NLR					VA		
Year												VA	NC	System
2016		127										1,019	-	1,019
2017		3,004										7,361	-	7,361
2018		6,236										15,158	-	15,158

Appendix D.7 Non-residential Prescriptive Program 2017-2018

PROGRAM: Nonresidential Prescriptive Program
 DSM Phase VI Program
 Type: Energy Efficiency
 Program Measure Life: 6.3 years (6 years, 4 months)

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					System Cum for IRP
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
		[A]	[-A rebred]	[E] = Σ[A] + Σ[-A retired]	[B]	[F] =Σ[A] + Σ[-A retired] + B	[C]	[-C retired]	[G] = Σ[C] + Σ[-C retired]	[D]	[H] = Σ[C] + Σ[-C retired] + D	
December	2015											
January	2016											
February	2016											
March	2016											
April	2016											
May	2016											
June	2016											
July	2016											
August	2016											
September	2016											
October	2016											
November	2016											
December	2016											
January	2017	0		0		0	0	0	0	0	0	0
February	2017	0		0		0	0	0	0	0	0	0
March	2017	0		0		0	0	0	0	0	0	0
April	2017	0		0		0	0	0	0	0	0	0
May	2017	0		0		0	0	0	0	0	0	0
June	2017	0		0		0	0	0	0	0	0	0
July	2017	0		0		0	0	0	0	0	0	0
August	2017	0		0		0	0	0	0	0	0	0
September	2017	0		0		0	0	0	0	0	0	0
October	2017	0		0		0	0	0	0	0	0	0
November	2017	0		0		0	0	0	0	0	0	0
December	2017	4		4		4	0	0	0	0	0	4
January	2018	49		53		53	0	0	0	0	0	53
February	2018	181		234		234	0	0	0	0	0	234
March	2018	115		349		349	0	0	0	0	0	349
April	2018	56		405		405	0	0	0	0	0	405
May	2018	123		528		528	0	0	0	0	0	528
June	2018	100		628		628	0	0	0	0	0	628
July	2018	64		692		692	0	0	0	0	0	692
August	2018	47		739		739	0	0	0	0	0	739
September	2018	83		822		822	0	0	0	0	0	822
October	2018	11		833		833	0	0	0	0	0	833
November	2018	21		854		854	11	0	11	0	11	865
December	2018	15		869		869	10	0	21	0	21	885

Table 2. EM&V Data Incremental by Vintage Year

	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016	-	-	-	-	-					
2017	4	4	0	-	4					
2018	865	865	21	21	885					

Table 3. EM&V Data Annualized by Vintage Year

	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016	-	-	-	-	-					
2017	4	4	0	-	4					
2018	865	865	21	21	885					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)

	Program Participants									
	VA	NC PPI	System							
2016	-	-	-							
2017	-	0	-							
2018	-	21	-							

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)

	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016	-	-	-	-	-					
2017	4	4	0	-	4					
2018	869	869	21	21	890					

Appendix D.7 Non-residential Prescriptive Program 2017-2018

Table 1		Energy Savings										
Month	Year	Net kWh					NC					System Cum for IRP
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
December	2015											
January	2016											
February	2016											
March	2016											
April	2016											
May	2016											
June	2016											
July	2016											
August	2016											
September	2016											
October	2016											
November	2016											
December	2016											
January	2017	0		0		0	0		0		0	0
February	2017	0		0		0	0		0		0	0
March	2017	0		0		0	0		0		0	0
April	2017	0		0		0	0		0		0	0
May	2017	0		0		0	0		0		0	0
June	2017	0		0		0	0		0		0	0
July	2017	0		0		0	0		0		0	0
August	2017	0		0		0	0		0		0	0
September	2017	0		0		0	0		0		0	0
October	2017	0		0		0	0		0		0	0
November	2017	0		0		0	0		0		0	0
December	2017	50		50		50	0		0		0	50
January	2018	10,907		10,907		10,907	0		0		0	10,907
February	2018	98,870		109,827		109,827	0		0		0	109,827
March	2018	45,097		155,924		155,924	0		0		0	155,924
April	2018	27,038		182,962		182,962	0		0		0	182,962
May	2018	67,485		250,447		250,447	0		0		0	250,447
June	2018	55,611		306,058		306,058	0		0		0	306,058
July	2018	74,894		380,952		380,952	0		0		0	380,952
August	2018	27,030		407,983		407,983	0		0		0	407,983
September	2018	52,385		460,367		460,367	0		0		0	460,367
October	2018	7,945		468,312		468,312	0		0		0	468,312
November	2018	2,785		471,098		471,098	11,360		11,360		11,360	471,098
December	2018	7,089		478,186		478,186	4,349		15,709		15,709	478,186

Table 2. EM&V Data Incremental by Vintage Year										
Net Incremental Energy (kWh)										
		VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2016		-		-			-		-	-
2017		50		50			0		0	50
2018		3,682,480		3,682,480			27,070		27,070	3,709,550

Table 3. EM&V Data Annualized by Vintage Year									
Net Annualized Energy (kWh)									
		VA IRP		VA NLR		NC IRP		NC NLR	System IRP
2016		-		-		-		-	-
2017		594		594		0		0	594
2018		5,737,642		5,737,642		188,512		188,512	5,926,154

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)									
		Net Energy (kWh) for PPI							
		VA				NC PPI			System
2016						-			
2017						0			
2018						27,070			

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										
Net Energy (kWh)										
		VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2016		-		-			-		-	-
2017		50		50			0		0	50
2018		3,683,024		3,683,024			27,070		27,070	3,710,144

Appendix D.7 Non-residential Prescriptive Program 2017-2018

Table 1		Capacity Savings							Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Net kW							Net kWh/Participant for IRP			Net kW/Participant for IRP		
		VA		NC			System	System Cum for IRP	VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	NC Monthly New	NC Monthly Retired								
December	2015													
January	2016													
February	2016													
March	2016													
April	2016													
May	2016													
June	2016													
July	2016													
August	2016													
September	2016													
October	2016													
November	2016													
December	2016													
January	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
February	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
March	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
April	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
May	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
June	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
July	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
August	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
September	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
October	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
November	2017	0.00		0.00	0.00		0	0	-	-	-	-	-	-
December	2017	0.07		0.07	0.00		0	0	12	-	12	0.02	-	0.02
January	2018	20		20	0.00		0	0	207	-	207	0.37	-	0.37
February	2018	311		331	0.00		0	0	469	-	469	1.42	-	1.42
March	2018	164		495	0.00		0	0	447	-	447	1.42	-	1.42
April	2018	90		585	0.00		0	0	452	-	452	1.45	-	1.45
May	2018	150		735	0.00		0	0	474	-	474	1.39	-	1.39
June	2018	104		839	0.00		0	0	487	-	487	1.34	-	1.34
July	2018	210		1,048	0.00		0	0	551	-	551	1.52	-	1.52
August	2018	1,390		2,438	0.00		0	0	552	-	552	3.30	-	3.30
September	2018	124		2,562	0.00		0	0	560	-	560	3.12	-	3.12
October	2018	38		2,600	0.00		0	0	562	-	562	3.12	-	3.12
November	2018	3		2,603	15.52		16	16	552	1,033	558	3.05	1.41	3.03
December	2018	18		2,621	5.95		21	21	550	748	555	3.02	1.02	2.97

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant				
	Net Peak Demand (kW)						Net kWh/Participant for IRP			Net kW/Participant for IRP				
			VA IRP			NC IRP	System IRP	VA	NC	System	VA	NC	System	
2016														
2017			0.07				0	0.07	12	-	12	0.02	-	0.02
2018			2,621.05				21	2,643	4,257	1,289.03	4,187	3.03	1.02	2.98

Table 3. EM&V Data Annualized by Vintage Year							Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant			
	Net Peak Demand (kW)						Net kWh/Participant for IRP			Net kW/Participant for IRP			
		VA IRP			NC IRP	System IRP	VA	NC	System	VA	NC	System	
2016													
2017						0.00	0.07	149	-	149	0.02	-	0.02
2018						21	2,643	6,633	8,976.76	6,689	3.03	1.02	2.98

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)							PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
Net Peak Demand (kW)							Net kWh/Participant			Net kW/Participant		
					NC PPI		VA	NC	System	VA	NC	System
2016												
2017						0						
2018						21		1,289			1.02	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)							IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
Net Peak Demand (kW)							Net kWh/Participant			Net kW/Participant			
		VA IRP			NC IRP	System IRP	VA	NC	System	VA	NC	System	
2016													
2017		0.07				0	0	12	-	12	0.02	-	0.02
2018		2,621.12				21	2,643	4,238	1,289	4,169	3.02	1.02	2.97

Appendix D.8 Residential Air Conditioner Cycling Program 2010-2018

PROGRAM: Residential AC Cycling
DSM Phase I Program
Type: Peak Shaving
Measure Life: N/A

Table 1		Program Participants (Net) ¹			Peak Capacity Savings			Peak Capacity Savings / Participant		
Month	Year	VA	NC	System	VA	NC	System	VA	NC	System
May	2010	-	-	-	-	-	-	1.06	-	1.06
June	2010	29	-	29	30	-	30	1.06	-	1.06
July	2010	332	-	332	351	-	351	1.06	-	1.06
August	2010	1,376	-	1,376	1,457	-	1,457	1.06	-	1.06
September	2010	3,104	-	3,104	3,287	-	3,287	1.06	-	1.06
October	2010	6,431	-	6,431	6,810	-	6,810	1.06	-	1.06
November	2010	8,054	-	8,054	8,529	-	8,529	1.06	-	1.06
December	2010	10,276	-	10,276	10,880	-	10,880	1.06	-	1.06
January	2011	11,788	-	11,788	14,408	-	14,408	1.22	-	1.22
February	2011	13,646	-	13,646	16,679	-	16,679	1.22	-	1.22
March	2011	16,816	-	16,816	20,553	-	20,553	1.22	-	1.22
April	2011	19,212	-	19,212	23,481	-	23,481	1.22	-	1.22
May	2011	21,091	-	21,091	25,779	-	25,779	1.22	-	1.22
June	2011	22,940	-	22,940	28,042	-	28,042	1.22	-	1.22
July	2011	24,809	-	24,809	30,352	-	30,352	1.22	-	1.22
August	2011	25,341	28	25,369	31,041	34	31,075	1.22	1.22	1.22
September	2011	26,908	28	26,935	32,978	34	33,012	1.23	1.22	1.23
October	2011	29,100	320	29,419	35,661	390	36,052	1.23	1.22	1.23
November	2011	31,085	765	31,851	38,092	935	39,027	1.23	1.22	1.23
December	2011	32,168	953	33,121	39,420	1,164	40,584	1.23	1.22	1.23
January	2012	35,431	1,334	36,765	38,863	1,459	40,321	1.10	1.09	1.10
February	2012	38,284	1,763	40,047	41,987	1,926	43,912	1.10	1.09	1.10
March	2012	40,408	2,357	42,765	44,314	2,575	46,889	1.10	1.09	1.10
April	2012	44,143	2,627	46,770	48,404	2,870	51,274	1.10	1.09	1.10
May	2012	47,425	2,634	50,059	51,999	2,876	54,876	1.10	1.09	1.10
June	2012	49,081	2,638	51,719	53,826	2,874	56,701	1.10	1.09	1.10
July	2012	50,600	2,596	53,196	55,326	2,843	58,169	1.09	1.09	1.09
August	2012	51,542	2,469	54,011	56,356	2,709	59,066	1.09	1.10	1.09
September	2012	52,897	2,464	55,361	57,838	2,704	60,542	1.09	1.10	1.09
October	2012	54,818	2,465	57,283	59,938	2,706	62,644	1.09	1.10	1.09
November	2012	57,874	2,471	60,345	63,279	2,714	65,993	1.09	1.10	1.09
December	2012	58,901	2,478	61,379	64,403	2,721	67,124	1.09	1.10	1.09
January	2013	60,429	2,506	62,935	61,954	2,155	64,109	0.86	0.86	0.86
February	2013	61,601	2,474	64,076	62,962	2,127	65,090	0.86	0.86	0.86
March	2013	63,316	2,450	65,766	64,436	2,107	66,543	0.86	0.86	0.86
April	2013	65,506	2,475	67,981	66,319	2,128	68,448	0.86	0.86	0.86
May	2013	67,036	2,543	69,579	67,635	2,187	69,822	0.86	0.86	0.86
June	2013	68,075	2,558	70,633	68,528	2,199	70,728	0.86	0.86	0.86
July	2013	68,928	2,532	71,460	69,261	2,177	71,438	0.86	0.86	0.86
August	2013	69,405	2,710	72,114	69,671	2,330	72,001	0.86	0.86	0.86
September	2013	70,340	3,053	73,393	70,475	2,330	72,805	0.86	0.76	0.86
October	2013	71,997	3,401	75,398	71,900	2,924	74,824	0.86	0.86	0.86
November	2013	74,182	3,397	77,578	73,778	2,920	76,699	0.86	0.86	0.86
December	2013	75,738	3,394	79,132	75,117	2,918	78,035	0.86	0.86	0.86
January	2014	77,588	3,376	80,964	76,004	2,654	78,658	0.79	0.79	0.79
February	2014	79,424	3,366	82,790	76,713	2,615	79,328	0.78	0.78	0.78
March	2014	81,294	3,359	84,653	76,661	2,548	79,209	0.76	0.76	0.76
April	2014	83,265	3,347	86,612	76,157	2,539	78,695	0.76	0.76	0.76
May	2014	83,721	3,286	87,008	76,954	2,432	79,386	0.74	0.74	0.74
June	2014	84,578	3,339	87,917	76,806	2,440	79,246	0.73	0.73	0.73
July	2014	84,055	3,553	87,608	76,868	2,531	79,399	0.71	0.71	0.71
August	2014	84,446	3,737	88,183	76,584	2,593	79,177	0.69	0.69	0.69
September	2014	85,480	3,930	89,410	77,720	2,654	80,374	0.68	0.68	0.68
October	2014	86,869	3,902	90,771	77,855	2,598	80,453	0.67	0.67	0.67
November	2014	87,540	4,005	91,546	77,492	2,630	80,123	0.66	0.66	0.66
December	2014	88,243	4,010	92,253	77,137	2,597	79,734	0.65	0.65	0.65

Appendix D.8 Residential Air Conditioner Cycling Program 2010-2018

Table 1				Peak Capacity Savings			Peak Capacity Savings / Participant				
Month	Year	Program Participants (Net) ¹			VA	Net KW		System	Net kW/Participant		
		VA	NC	System		VA	NC		System		
January	2015	94,241	4,213	98,454	66,911	2,991	69,903	0.71	0.71	0.71	
February	2015	95,140	4,195	99,336	67,550	2,979	70,528	0.71	0.71	0.71	
March	2015	96,549	4,233	100,782	68,550	3,006	71,555	0.71	0.71	0.71	
April	2015	98,027	4,222	102,249	69,599	2,998	72,597	0.71	0.71	0.71	
May	2015	99,574	4,215	103,790	70,698	2,993	73,691	0.71	0.71	0.71	
June	2015	100,034	4,184	104,218	71,024	2,971	73,995	0.71	0.71	0.71	
July	2015	97,475	3,994	101,470	69,207	2,836	72,043	0.71	0.71	0.71	
August	2015	97,406	3,939	101,346	69,158	2,797	71,955	0.71	0.71	0.71	
September	2015	98,545	3,908	102,454	69,967	2,775	72,742	0.71	0.71	0.71	
October	2015	100,082	3,907	103,989	71,058	2,774	73,832	0.71	0.71	0.71	
November	2015	101,422	3,914	105,336	72,009	2,779	74,789	0.71	0.71	0.71	
December	2015	103,160	3,916	107,077	73,244	2,781	76,024	0.71	0.71	0.71	
January	2016	103,679	3,897	107,576	100,207	3,780	103,987	0.97	0.97	0.97	
February	2016	103,673	3,884	107,557	100,201	3,767	103,968	0.97	0.97	0.97	
March	2016	103,872	3,882	107,754	100,393	3,766	104,159	0.97	0.97	0.97	
April	2016	104,165	3,910	108,075	100,676	3,793	104,469	0.97	0.97	0.97	
May	2016	104,189	3,899	108,088	100,700	3,782	104,481	0.97	0.97	0.97	
June	2016	104,492	3,908	108,400	100,992	3,791	104,783	0.97	0.97	0.97	
July	2016	103,807	3,876	107,683	100,330	3,760	104,090	0.97	0.97	0.97	
August	2016	101,205	3,761	104,966	97,815	3,649	101,464	0.97	0.97	0.97	
September	2016	99,596	3,712	103,308	96,260	3,600	99,861	0.97	0.97	0.97	
October	2016	99,274	3,694	102,968	95,949	3,583	99,532	0.97	0.97	0.97	
November	2016	98,676	3,728	102,404	95,371	3,616	98,987	0.97	0.97	0.97	
December	2016	98,088	3,707	101,795	94,803	3,595	98,398	0.97	0.97	0.97	
January	2017	97,959	3,716	101,675	66,589	2,527	69,116	0.68	0.68	0.68	
February	2017	97,911	3,713	101,624	66,557	2,525	69,082	0.68	0.68	0.68	
March	2017	97,881	3,713	101,594	66,536	2,525	69,061	0.68	0.68	0.68	
April	2017	96,947	3,708	100,655	65,902	2,521	68,423	0.68	0.68	0.68	
May	2017	95,476	3,697	99,173	64,902	2,514	67,415	0.68	0.68	0.68	
June	2017	94,598	3,685	98,283	64,305	2,506	66,810	0.68	0.68	0.68	
July	2017	93,399	3,667	97,066	63,490	2,493	65,983	0.68	0.68	0.68	
August	2017	92,100	3,605	95,705	62,607	2,451	65,058	0.68	0.68	0.68	
September	2017	91,120	3,596	94,716	61,941	2,445	64,386	0.68	0.68	0.68	
October	2017	90,505	3,594	94,099	61,522	2,444	63,966	0.68	0.68	0.68	
November	2017	89,586	3,593	93,179	60,898	2,443	63,341	0.68	0.68	0.68	
December	2017	89,282	3,605	92,887	60,691	2,451	63,142	0.68	0.68	0.68	
January	2018	88,935	3,612	92,547	55,778	2,267	58,045	0.63	0.63	0.63	
February	2018	88,626	3,613	92,239	55,584	2,267	57,851	0.63	0.63	0.63	
March	2018	88,319	3,606	91,925	55,392	2,263	57,655	0.63	0.63	0.63	
April	2018	87,121	3,319	90,440	54,640	2,083	56,723	0.63	0.63	0.63	
May	2018	86,796	3,316	90,112	54,436	2,081	56,517	0.63	0.63	0.63	
June	2018	85,222	3,231	88,453	53,449	2,028	55,477	0.63	0.63	0.63	
July	2018	83,955	3,187	87,142	52,655	2,000	54,655	0.63	0.63	0.63	
August	2018	83,020	3,162	86,182	52,068	1,984	54,053	0.63	0.63	0.63	
September	2018	82,011	3,133	85,144	51,435	1,966	53,402	0.63	0.63	0.63	
October	2018	81,469	3,122	84,591	51,095	1,959	53,055	0.63	0.63	0.63	
November	2018	80,982	3,082	84,064	50,790	1,934	52,724	0.63	0.63	0.63	
December	2018	80,627	3,067	83,694	50,567	1,925	52,492	0.63	0.63	0.63	

Appendix D.8 Residential Air Conditioner Cycling Program 2010-2018

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Table 2. EM&V Data by Vintage Year	Program Participants (Net) ¹			Annual Peak Savings			Annual Peak Savings / Participant		
	Net kW			Net kW			Net kW/Participant		
	VA	NC	System	VA	NC	System	VA	NC	System
2010	10,276	-	10,276	10,880	-	10,880	1.06	-	1.06
2011	32,168	953	33,121	39,420	1,164	40,584	1.23	1.22	1.23
2012	58,901	2,478	61,379	64,403	2,721	67,124	1.09	1.10	1.09
2013	75,738	3,394	79,132	65,117	2,918	68,035	0.86	0.86	0.86
2014	88,243	4,010	92,253	57,137	2,597	59,734	0.65	0.65	0.65
2015	103,160	3,916	107,077	73,244	2,781	76,024	0.71	0.71	0.71
2016	98,088	3,707	101,795	94,803	3,595	98,398	0.97	0.97	0.97
2017	89,282	3,605	92,887	60,691	2,451	63,142	0.68	0.68	0.68
2018	80,627	3,067	83,694	50,567	1,925	52,492	0.63	0.63	0.63

Table 3. EM&V Data Difference by Vintage Year	Program Participant Difference			Net kW Difference			Net kW Difference / Participant		
	Net kW			Net kW			Net kW		
	VA	NC	System	VA	NC	System	VA	NC	System
2010	10,276	0	10,276	10,880	0	10,880	1.06	-	1.06
2011	21,893	953	22,845	28,540	1,164	29,704	1.30	1.22	1.30
2012	26,733	1,525	28,258	24,983	1,557	26,540	0.93	1.02	0.94
2013	16,837	916	17,753	714	197	911	0.04	0.22	0.05
2014	12,504	616	13,121	-7,980	-321	-8,301	-0.64	-0.52	-0.63
2015	14,917	-94	14,824	16,106	184	16,291	1.08	-1.97	1.10
2016	-5,072	-210	-5,282	21,559	815	22,374	-4.25	-3.88	-4.24
2017	-8,806	-102	-8,908	-34,112	-1,144	-35,256	3.87	11.24	3.96
2018	-8,655	-538	-9,193	-10,124	-526	-10,650	1.17	0.98	1.16

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)	Program Participants			Net kW			PPI Capacity Savings/Participant		
	Net kW			Net kW			Net kW/Participant		
	VA	NC	System	VA	NC	System	VA	NC	System
2010	10,276	-	10,276	10,880	-	10,880	1.06	-	1.06
2011	32,168	953	33,121	50,300	1,164	51,463	1.56	1.22	1.19
2012	58,901	2,478	61,379	64,403	2,721	67,124	1.09	1.10	1.09
2013	65,463	3,394	68,857	54,237	2,918	57,155	0.83	0.86	0.83
2014	56,074	3,057	59,132	17,717	1,433	19,150	0.32	0.47	0.32
2015	44,259	1,438	45,697	8,841	60	8,901	0.20	0.04	0.19
2016	22,350	313	22,662	29,686	677	30,363	1.33	2.17	1.34
2017	1,039	-405	634	3,554	-145	3,409	3.42	0.36	5.38
2018	-22,533	-850	-23,383	-22,676	-856	-23,532	1.01	1.01	1.01

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)	Program Participants			Net kW			IRP Capacity Savings/Participant		
	Net kW			Net kW			Net kW/Participant		
	VA	NC	System	VA	NC	System	VA	NC	System
2010	10,276	-	10,276	10,880	-	10,880	1.06	-	1.06
2011	32,168	953	33,121	39,420	1,164	40,584	1.23	1.22	1.23
2012	58,901	2,478	61,379	64,403	2,721	67,124	1.09	1.10	1.09
2013	75,738	3,394	79,132	65,117	2,918	68,035	0.86	0.86	0.86
2014	88,243	4,010	92,253	57,137	2,597	59,734	0.65	0.65	0.65
2015	103,160	3,916	107,077	73,244	2,781	76,024	0.71	0.71	0.71
2016	98,088	3,707	101,795	94,803	3,595	98,398	0.97	0.97	0.97
2017	89,282	3,605	92,887	60,691	2,451	63,142	0.68	0.68	0.68
2018	80,627	3,067	83,694	50,567	1,925	52,492	0.63	0.63	0.63

Appendix D.9 Non-residential Distributed Generation Program 2012-2018

PROGRAM: Non-Residential Distributed
Generation
DSM Phase II Program
Type: Peak Shaving
Program Measure Life: N/A

Table 1		Participation			Net Capacity Savings			Net Capacity Savings / Participant		
Month	Year	Program Participants			Net kW			Net kW/participant		
		VA	NE	System	VA	NE	System	VA	NE	System
June	2012	19		19	15,857		15,857	843		843
July	2012	19		19	16,051		16,051	843		843
August	2012	19		19	16,051		16,051	843		843
September	2012	19		19	16,051		16,051	843		843
October	2012	19		19	16,051		16,051	843		843
November	2012	19		19	16,051		16,051	843		843
December	2012	19		19	16,051		16,051	843		843
January	2013	19		19	13,478		13,478	698		698
February	2013	19		19	13,478		13,478	698		698
March	2013	19		19	13,478		13,478	698		698
April	2013	19		19	13,478		13,478	698		698
May	2013	19		19	13,478		13,478	698		698
June	2013	19		19	13,691		13,691	709		709
July	2013	19		19	14,713		14,713	758		758
August	2013	19		19	14,785		14,785	779		779
September	2013	19		19	15,770		15,770	830		830
October	2013	19		19	16,110		16,110	830		830
November	2013	19		19	16,110		16,110	830		830
December	2013	19		19	16,110		16,110	830		830
January	2014	19		19	10,346		10,346	550		550
February	2014	19		19	10,346		10,346	550		550
March	2014	19		19	8,653		8,653	460		460
April	2014	19		19	8,653		8,653	460		460
May	2014	19		19	8,653		8,653	460		460
June	2014	18		18	13,904		13,904	790		790
July	2014	19		19	14,860		14,860	790		790
August	2014	17		17	13,819		13,819	810		810
September	2014	19		19	14,121		14,121	760		760
October	2014	19		19	14,121		14,121	760		760
November	2014	19		19	14,121		14,121	760		760
December	2014	19		19	14,121		14,121	760		760
January	2015	6		6	4,259		4,259	698		698
February	2015	6		6	4,721		4,721	774		774
March	2015	6		6	5,457		5,457	895		895
April	2015	6		6	5,457		5,457	895		895
May	2015	6		6	5,457		5,457	895		895
June	2015	6		6	6,015		6,015	986		986
July	2015	6		6	6,048		6,048	991		991
August	2015	6		6	5,714		5,714	937		937
September	2015	6		6	5,530		5,530	907		907
October	2015	6		6	5,457		5,457	895		895
November	2015	6		6	5,457		5,457	895		895
December	2015	6		6	5,457		5,457	895		895
January	2016	6		6	4,597		4,597	742		742
February	2016	6		6	3,864		3,864	623		623
March	2016	0		0	0		0	-		-
April	2016	0		0	0		0	-		-
May	2016	0		0	0		0	-		-
June	2016	7		7	5,385		5,385	828		828
July	2016	7		7	4,446		4,446	684		684
August	2016	7		7	7,057		7,057	1,086		1,086
September	2016	7		7	7,653		7,653	1,177		1,177
October	2016	0		0	0		0	-		-
November	2016	0		0	0		0	-		-
December	2016	7		7	4,348		4,348	669		669
January	2017	6		6	5,149		5,149	844		844
February	2017	0		0	0		0	-		-
March	2017	0		0	0		0	-		-
April	2017	0		0	0		0	-		-
May	2017	6		6	5,487		5,487	900		900
June	2017	6		6	6,182		6,182	1,048		1,048
July	2017	6		6	6,054		6,054	1,026		1,026
August	2017	6		6	6,409		6,409	1,165		1,165
September	2017	6		6	5,674		5,674	1,013		1,013
October	2017	0		0	0		0	-		-
November	2017	0		0	0		0	-		-
December	2017	6		6	5,272		5,272	864		864

Appendix D.9 Non-residential Distributed Generation Program 2012-2018

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Table 1		Participation			Net Capacity Savings			Net Capacity Savings / Participant		
Month	Year	Program Participants			Net kW			Net kW/participant		
		VA	NC	System	VA	NC	System	VA	NC	System
January	2018	6		6	5,946		5,946	970		970
February	2018	6		6	5,946		5,946	970		970
March	2018	6		6	5,946		5,946	970		970
April	2018	6		6	5,946		5,946	970		970
May	2018	6		6	5,946		5,946	970		970
June	2018	6		6	5,946		5,946	970		970
July	2018	6		6	5,946		5,946	970		970
August	2018	6		6	5,946		5,946	970		970
September	2018	6		6	5,946		5,946	970		970
October	2018	6		6	5,946		5,946	970		970
November	2018	6		6	5,946		5,946	970		970
December	2018	6		6	5,946		5,946	970		970

Table 2. EM&V Data by Vintage Year				Annual Peak Shaving Potential			Annual Peak Shaving Potential/Participant		
	Program Participants			Net kW			Net kW/Participant		
	VA	NC	System	VA	NC	System	VA	NC	System
2012	19		19	16,051		16,051	843		843
2013	19		19	16,110		16,110	830		830
2014	19		19	14,121		14,121	760		760
2015	6		6	5,457		5,457	895		895
2016	7		7	4,348		4,348	669		669
2017	6		6	5,272		5,272	864		864
2018	6		6	5,946		5,946	970		970

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Appendix D.10 Residential Lighting Program 2010-2018

Capacity Savings						Energy Savings / Participant			Capacity Savings / Participant			
Net kW						Net kWh/Participant for IRP			Net kW/Participant for IRP			
NC						System			System			
VA Monthly Cum.	VA Monthly Cum. Retired	VA Cum. for IRP (New + Retired)	NC Monthly Cum.	NC Monthly Cum. Retired	NC Cum. for IRP (New + Retired)	System Cum. for IRP	VA	NC	System	VA	NC	System
246		246	-		-	246	2.37	-	2.37	0.003	-	0.003
492		492	-		-	492	2.37	-	2.37	0.003	-	0.003
738		738	-		-	738	2.37	-	2.37	0.003	-	0.003
984		984	-		-	984	2.37	-	2.37	0.003	-	0.003
1230		1230	-		-	1230	2.37	-	2.37	0.003	-	0.003
1476		1476	-		-	1476	2.37	-	2.37	0.003	-	0.003
1722		1722	-		-	1722	2.37	-	2.37	0.003	-	0.003
1968		1968	-		-	1968	2.37	-	2.37	0.003	-	0.003
2214		2214	-		-	2214	2.37	-	2.37	0.003	-	0.003
2460		2460	-		-	2460	2.37	-	2.37	0.003	-	0.003
2706		2706	-		-	2706	2.37	-	2.37	0.003	-	0.003
2952		2952	-		-	2952	2.37	-	2.37	0.003	-	0.003
3198		3198	-		-	3198	2.37	-	2.37	0.003	-	0.003
3444		3444	-		-	3444	2.37	-	2.37	0.003	-	0.003
3690		3690	-		-	3690	2.37	-	2.37	0.003	-	0.003
3936		3936	-		-	3936	2.37	-	2.37	0.003	-	0.003
4182		4182	-		-	4182	2.37	-	2.37	0.003	-	0.003
4428		4428	-		-	4428	2.37	-	2.37	0.003	-	0.003
4674		4674	-		-	4674	2.37	-	2.37	0.003	-	0.003
4920		4920	-		-	4920	2.37	-	2.37	0.003	-	0.003
5166		5166	-		-	5166	2.37	-	2.37	0.003	-	0.003
5412		5412	-		-	5412	2.37	-	2.37	0.003	-	0.003
5658		5658	-		-	5658	2.37	-	2.37	0.003	-	0.003
5904		5904	-		-	5904	2.37	-	2.37	0.003	-	0.003
6150		6150	-		-	6150	2.37	-	2.37	0.003	-	0.003
6396		6396	-		-	6396	2.37	-	2.37	0.003	-	0.003
6642		6642	-		-	6642	2.37	-	2.37	0.003	-	0.003
6888		6888	-		-	6888	2.37	-	2.37	0.003	-	0.003
7134		7134	-		-	7134	2.37	-	2.37	0.003	-	0.003
7380		7380	-		-	7380	2.37	-	2.37	0.003	-	0.003
7626		7626	-		-	7626	2.37	-	2.37	0.003	-	0.003
7872		7872	-		-	7872	2.37	-	2.37	0.003	-	0.003
8118		8118	-		-	8118	2.37	-	2.37	0.003	-	0.003
8364		8364	-		-	8364	2.37	-	2.37	0.003	-	0.003
8610		8610	-		-	8610	2.37	-	2.37	0.003	-	0.003
8856		8856	-		-	8856	2.37	-	2.37	0.003	-	0.003
9102		9102	-		-	9102	2.37	-	2.37	0.003	-	0.003
9348		9348	-		-	9348	2.37	-	2.37	0.003	-	0.003
9594		9594	-		-	9594	2.37	-	2.37	0.003	-	0.003
9840		9840	-		-	9840	2.37	-	2.37	0.003	-	0.003
10086		10086	-		-	10086	2.37	-	2.37	0.003	-	0.003
10332		10332	-		-	10332	2.37	-	2.37	0.003	-	0.003
10578		10578	-		-	10578	2.37	-	2.37	0.003	-	0.003
10824		10824	-		-	10824	2.37	-	2.37	0.003	-	0.003
11070		11070	-		-	11070	2.37	-	2.37	0.003	-	0.003
11316		11316	-		-	11316	2.37	-	2.37	0.003	-	0.003
11562		11562	-		-	11562	2.37	-	2.37	0.003	-	0.003
11808		11808	-		-	11808	2.37	-	2.37	0.003	-	0.003
12054		12054	-		-	12054	2.37	-	2.37	0.003	-	0.003
12300		12300	-		-	12300	2.37	-	2.37	0.003	-	0.003
12546		12546	-		-	12546	2.37	-	2.37	0.003	-	0.003
12792		12792	-		-	12792	2.37	-	2.37	0.003	-	0.003
13038		13038	-		-	13038	2.37	-	2.37	0.003	-	0.003
13284		13284	-		-	13284	2.37	-	2.37	0.003	-	0.003
13530		13530	-		-	13530	2.37	-	2.37	0.003	-	0.003
13776		13776	-		-	13776	2.37	-	2.37	0.003	-	0.003
14022		14022	-		-	14022	2.37	-	2.37	0.003	-	0.003
14268		14268	-		-	14268	2.37	-	2.37	0.003	-	0.003
14514		14514	-		-	14514	2.37	-	2.37	0.003	-	0.003
14760		14760	-		-	14760	2.37	-	2.37	0.003	-	0.003
15006		15006	-		-	15006	2.37	-	2.37	0.003	-	0.003
15252		15252	-		-	15252	2.37	-	2.37	0.003	-	0.003
15498		15498	-		-	15498	2.37	-	2.37	0.003	-	0.003
15744		15744	-		-	15744	2.37	-	2.37	0.003	-	0.003
15990		15990	-		-	15990	2.37	-	2.37	0.003	-	0.003
16236		16236	-		-	16236	2.37	-	2.37	0.003	-	0.003
16482		16482	-		-	16482	2.37	-	2.37	0.003	-	0.003
16728		16728	-		-	16728	2.37	-	2.37	0.003	-	0.003
16974		16974	-		-	16974	2.37	-	2.37	0.003	-	0.003
17220		17220	-		-	17220	2.37	-	2.37	0.003	-	0.003
17466		17466	-		-	17466	2.37	-	2.37	0.003	-	0.003
17712		17712	-		-	17712	2.37	-	2.37	0.003	-	0.003
17958		17958	-		-	17958	2.37	-	2.37	0.003	-	0.003
18204		18204	-		-	18204	2.37	-	2.37	0.003	-	0.003
18450		18450	-		-	18450	2.37	-	2.37	0.003	-	0.003
18696		18696	-		-	18696	2.37	-	2.37	0.003	-	0.003
18942		18942	-		-	18942	2.37	-	2.37	0.003	-	0.003
19188		19188	-		-	19188	2.37	-	2.37	0.003	-	0.003
19434		19434	-		-	19434	2.37	-	2.37	0.003	-	0.003
19680		19680	-		-	19680	2.37	-	2.37	0.003	-	0.003
19926		19926	-		-	19926	2.37	-	2.37	0.003	-	0.003
20172		20172	-		-	20172	2.37	-	2.37	0.003	-	0.003
20418		20418	-		-	20418	2.37	-	2.37	0.003	-	0.003
20664		20664	-		-	20664	2.37	-	2.37	0.003	-	0.003
20910		20910	-		-	20910	2.37	-	2.37	0.003	-	0.003
21156		21156	-		-	21156	2.37	-	2.37	0.003	-	0.003
21402		21402	-		-	21402	2.37	-	2.37	0.003	-	0.003
21648		21648	-		-	21648	2.37	-	2.37	0.003	-	0.003
21894		21894	-		-	21894	2.37	-	2.37	0.003	-	0.003
22140		22140	-		-	22140	2.37	-	2.37	0.003	-	0.003
22386		22386	-		-	22386	2.37	-	2.37	0.003	-	0.003
22632		22632	-		-	22632	2.37	-	2.37	0.003	-	0.003
22878		22878	-		-	22878	2.37	-	2.37	0.003	-	0.003
23124		23124	-		-	23124	2.37	-	2.37	0.003	-	0.003
23370		23370	-		-	23370	2.37	-	2.37	0.003	-	0.003
23616		23616	-		-	23616	2.37	-	2.37	0.003	-	0.003
23862		23862	-		-	23862	2.37	-	2.37	0.003	-	0.003
24108		24108	-		-	24108	2.37	-	2.37	0.003	-	0.003
24354		24354	-		-	24354	2.37	-	2.37	0.003	-	0.003
24600		24600	-		-	24600	2.37	-	2.37	0.003	-	0.003
24846		24846	-		-	24846	2.37	-	2.37	0.003	-	0.003
25092		25092	-		-	25092	2.37	-	2.37	0.003	-	0.003
25338		25338	-		-	25338	2.37	-	2.37	0.003	-	0.003
25584		25584	-		-	25584	2.37	-	2.37	0.003	-	0.003
25830		25830	-		-	25830	2.37	-	2.37	0.003	-	0.003
26076		26076	-		-	26076	2.37	-	2.37	0.003	-	0.003
26322		26322	-		-	26322	2.37	-	2.37	0.003	-	0.003
26568		26568	-		-	26568	2.37	-	2.37	0.003	-	0.003
26814		26814	-		-	26814	2.37	-	2.37	0.003	-	0.003
27060		27060	-		-	27060	2.37	-	2.37	0.003	-	-

Appendix D.10 Residential Lighting Program 2010-2018

Table 2. E&A/V Data Incremental by Vintage Year	Program Participants (Gross)				Energy Savings (Incremental)			
					Net kWh			
	VA	NC	System		VA	NC	System	
2010	2,016,479	-	2,016,479		17,182,471	-	17,182,471	
2011	2,206,030	37,120	2,243,150		41,098,508	267,232	41,365,739	
2012	0	0	0		0	0	0	
2013	0	0	0		0	0	0	
2014	0	0	0		0	0	0	
2015	0	0	0		0	0	0	
2016	0	0	0		0	0	0	
2017	0	0	0		0	0	0	
2018	0	0	0		0	0	0	

Table 3. E&A/V Data Accumulated by Vintage Year	Program Participants (Gross)				Energy Savings (Accumulated)			
					Net kWh			
	VA	NC	System		VA	NC	System	
2010	2,016,479	-	2,016,479		55,485,738	-	55,485,738	
2011	2,206,030	37,120	2,243,150		63,734,988	1,028,025	64,763,013	
2012	0	0	0		0	0	0	
2013	0	0	0		0	0	0	
2014	0	0	0		0	0	0	
2015	0	0	0		0	0	0	
2016	0	0	0		0	0	0	
2017	0	0	0		0	0	0	
2018	0	0	0		0	0	0	

Table 4. E&A/V Data Accumulated through Vintage Year (For PPI)	Program Participants (Gross)				Energy Savings for Program Performance Incentives (PPI)			
					Net kWh			
	VA	NC	System		VA	NC	System	
2010	2,016,479	-	2,016,479		17,182,471	-	17,182,471	
2011	4,222,509	37,120	4,259,629		96,594,263	267,232	96,861,495	
2012	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2013	2,206,030	37,120	2,243,150		63,734,988	1,028,025	64,763,013	
2014	0	0	0		0	0	0	
2015	0	0	0		0	0	0	
2016	0	0	0		0	0	0	
2017	NA	NA	NA		NA	NA	NA	

Table 5. E&A/V Data Accumulated through Vintage Year (For IRP)	Program Participants (Gross)				Energy Savings for Integrated Resource Planning (IRP)			
					Net kWh			
	VA	NC	System		VA	NC	System	
2010	2,016,479	-	2,016,479		17,182,471	-	17,182,471	
2011	4,222,509	37,120	4,259,629		96,594,263	267,232	96,861,495	
2012	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2013	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2014	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2015	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2016	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2017	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2018	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	

Table 6. E&A/V Data Accumulated through Vintage Year (For NC Lost Revenue)	Program Participants (Gross)				Energy Savings for NC Lost Revenue			
					Net kWh			
	VA	NC	System		VA	NC	System	
2010	2,016,479	-	2,016,479		17,182,471	-	17,182,471	
2011	4,222,509	37,120	4,259,629		96,594,263	267,232	96,861,495	
2012	4,222,509	37,120	4,259,629		119,230,743	1,028,025	120,258,768	
2013	4,222,509	37,120	4,259,629		106,692,919	1,028,025	107,720,943	
2014	2,206,030	37,120	2,243,150		27,947,729	846,462	28,794,191	
2015	0	0	0		0	0	0	
2016	0	0	0		0	0	0	
2017	NA	NA	NA		NA	NA	NA	