

Appendix C.3 Residential Duct Sealing Program 2012 - 2017

PROGRAM: Residential Duct Sealing
DSM Phase II Program
Type: Energy Efficiency
Program Measure Life: 18.0 years

Table 1 Participation Program Participants								Table 1 Energy Savings Gross kWh							
Month	Year	VA		NC		System		Month	Year	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)			VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)
		[A]	[-A retired]	[E] = Σ[A] + Σ[-A retired]	[C]	[-C retired]	[G] = Σ[C] + Σ[-C retired]								
October	2012	2		2				October	2012	264		264			264
November	2012	6		8				November	2012	577		841			841
December	2012	0		8				December	2012	0		841			841
January	2013	0		8				January	2013	0		841			841
February	2013	16		24				February	2013	2,888		3,729			3,729
March	2013	4		28				March	2013	170		3,899			3,899
April	2013	23		51				April	2013	1,716		5,615			5,615
May	2013	17		68				May	2013	1,250		6,865			6,865
June	2013	11		79				June	2013	1,175		8,039			8,039
July	2013	4		83				July	2013	315		8,355			8,355
August	2013	7		90				August	2013	684		9,039			9,039
September	2013	3		93				September	2013	323		9,362			9,362
October	2013	10		103				October	2013	535		9,897			9,897
November	2013	6		109				November	2013	410		10,307			10,307
December	2013	7		116				December	2013	599		10,905			10,905
January	2014	15		131				January	2014	740		11,645			11,645
February	2014	6		137				February	2014	270		11,915			11,915
March	2014	3		140				March	2014	168		12,084			12,084
April	2014	9		149				April	2014	565		12,649			12,649
May	2014	6		155				May	2014	373		13,022			13,022
June	2014	6		161				June	2014	479		13,500			13,500
July	2014	9		170				July	2014	429		13,930			13,930
August	2014	5		175				August	2014	263		14,193			14,193
September	2014	26		201				September	2014	2,612		16,806			16,806
October	2014	82		283				October	2014	4,550		21,355			21,355
November	2014	117		400				November	2014	5,692		27,047			27,047
December	2014	517		517				December	2014	5,906		32,953			32,953
January	2015	106		623	1		1	January	2015	5,448		38,401	58		38,459
February	2015	163		786	28		29	February	2015	7,642		46,043	1,649		47,692
March	2015	132		918	85		114	March	2015	6,286		52,329	4,331		56,660
April	2015	201		1,119	60		174	April	2015	9,099		61,428	3,171		64,599
May	2015	233		1,352	77		251	May	2015	11,291		72,720	3,850		76,570
June	2015	262		1,614	59		310	June	2015	12,135		84,855	3,005		87,860
July	2015	168		1,782	12		322	July	2015	6,995		91,850	678		92,528
August	2015	185		1,967	0		322	August	2015	8,560		100,410	0		100,410
September	2015	134		2,101	0		322	September	2015	5,958		106,368	0		106,368
October	2015	68		2,169	1		323	October	2015	3,014		109,382	50		109,432
November	2015	59		2,228	0		323	November	2015	2,748		112,130	0		112,130
December	2015	123		2,377	0		323	December	2015	6,181		118,311	0		118,311
January	2016	53		2,430	1		324	January	2016	3,147		121,458	39		121,497
February	2016	96		2,526	26		350	February	2016	4,683		126,141	1,237		127,378
March	2016	48		2,574	66		416	March	2016	1,989		128,131	3,681		131,812
April	2016	48		2,622	49		465	April	2016	2,173		130,304	2,362		132,666
May	2016	40		2,662	25		490	May	2016	2,388		132,692	1,251		133,943
June	2016	48		2,710	21		511	June	2016	2,284		134,975	864		135,839
July	2016	14		2,724	19		530	July	2016	612		135,587	777		136,364
August	2016	36		2,760	6		536	August	2016	1,494		137,081	414		137,495
September	2016	55		2,815	1		537	September	2016	2,395		139,476	39		139,515
October	2016	67		2,882	3		540	October	2016	3,208		142,685	95		142,780
November	2016	95		2,977	0		540	November	2016	4,432		147,117	0		147,117
December	2016	58		3,035	0		540	December	2016	1,971		149,088	0		149,088
January	2017	101		3,136	8		548	January	2017	4,818		153,906	436		154,342
February	2017	147		3,283	5		553	February	2017	6,556		160,462	193		160,655
March	2017	16		3,299	1		554	March	2017	763		161,225	38		161,263
April	2017	0		3,299	0		554	April	2017	0		161,225	0		161,225
May	2017	0		3,299	0		554	May	2017	0		161,225	0		161,225
June	2017	0		3,299	0		554	June	2017	0		161,225	0		161,225
July	2017	0		3,299	0		554	July	2017	0		161,225	0		161,225
August	2017	0		3,299	0		554	August	2017	0		161,225	0		161,225
September	2017	0		3,299	0		554	September	2017	0		161,225	0		161,225
October	2017	0		3,299	0		554	October	2017	0		161,225	0		161,225
November	2017	0		3,299	0		554	November	2017	0		161,225	0		161,225
December	2017	0		3,299	0		554	December	2017	0		161,225	0		161,225

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Appendix C.3 Residential Duct Sealing Program 2012 - 2017

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Table 1		Capacity Savings Gross kW						Energy Savings / Participant Gross kWh/ Participant for IRP			Capacity Savings / Participant Gross kW/ Participant for IRP		
Month	Year	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)						
October	2012	4		4				4	132		132	1.82	1.82
November	2012	8		12				12	105		105	1.45	1.45
December	2012	0		12				12	105		105	1.45	1.45
January	2013	0		12				12	105		105	1.45	1.45
February	2013	40		51				51	155		155	2.14	2.14
March	2013	2		53				53	139		139	1.89	1.89
April	2013	24		77				77	110		110	1.50	1.50
May	2013	17		94				94	101		101	1.38	1.38
June	2013	16		110				110	102		102	1.39	1.39
July	2013	4		114				114	101		101	1.38	1.38
August	2013	9		124				124	100		100	1.37	1.37
September	2013	4		128				128	101		101	1.38	1.38
October	2013	7		136				136	96		96	1.32	1.32
November	2013	6		141				141	95		95	1.30	1.30
December	2013	8		149				149	94		94	1.29	1.29
January	2014	7		157	0	0	0	157	89		89	1.20	1.20
February	2014	3		159	0	0	0	159	87		87	1.16	1.16
March	2014	2		161	0	0	0	161	86		86	1.15	1.15
April	2014	6		166	0	0	0	166	85		85	1.12	1.12
May	2014	4		170	0	0	0	170	84		84	1.10	1.10
June	2014	5		175	0	0	0	175	84		84	1.09	1.09
July	2014	4		179	0	0	0	179	82		82	1.05	1.05
August	2014	3		182	0	0	0	182	81		81	1.04	1.04
September	2014	26		207	0	0	0	207	84		84	1.03	1.03
October	2014	45		252	0	0	0	252	75		75	0.89	0.89
November	2014	56		308	0	0	0	308	68	-	68	0.77	0.77
December	2014	58		366	0	0	0	366	64	-	64	0.71	0.71
January	2015	54		420	1	1	1	420	62	58	62	0.67	0.51
February	2015	75		495	15	15	15	510	59	59	59	0.63	0.63
March	2015	62		557	38	38	38	610	57	57	57	0.61	0.57
April	2015	89		646	28	28	28	727	55	55	55	0.58	0.47
May	2015	111		757	34	34	34	872	54	52	54	0.56	0.46
June	2015	119		876	26	26	26	1,018	53	52	52	0.54	0.46
July	2015	69		945	6	6	6	1,093	52	52	52	0.53	0.46
August	2015	84		1,029	0	0	0	1,177	51	52	51	0.52	0.46
September	2015	59		1,088	0	0	0	1,236	51	52	51	0.52	0.46
October	2015	30		1,118	0	0	0	1,266	50	52	51	0.52	0.46
November	2015	27		1,145	0	0	0	1,293	50	52	51	0.51	0.46
December	2015	61		1,205	0	0	0	1,354	50	52	50	0.51	0.46
January	2016	31		1,236	0	0	0	1,385	50	52	50	0.51	0.46
February	2016	46		1,282	11	11	11	1,442	50	52	50	0.51	0.46
March	2016	20		1,302	32	32	32	1,494	50	52	50	0.51	0.46
April	2016	21		1,323	21	21	21	1,536	50	52	50	0.50	0.46
May	2016	23		1,347	11	11	11	1,570	50	52	50	0.51	0.46
June	2016	22		1,369	8	8	8	1,600	50	51	50	0.51	0.46
July	2016	6		1,375	7	7	7	1,613	50	51	50	0.50	0.45
August	2016	15		1,390	4	4	4	1,632	50	51	50	0.50	0.45
September	2016	24		1,413	0	0	0	1,655	50	51	50	0.50	0.45
October	2016	32		1,445	1	1	1	1,688	50	51	50	0.50	0.45
November	2016	44		1,488	0	0	0	1,731	49	51	50	0.50	0.45
December	2016	19		1,508	0	0	0	1,751	49	51	49	0.50	0.45
January	2017	47		1,555	4	4	4	1,802	49	51	49	0.50	0.45
February	2017	64		1,620	2	2	2	1,868	49	51	49	0.49	0.45
March	2017	8		1,627	0	0	0	1,876	49	51	49	0.49	0.45
April	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
May	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
June	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
July	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
August	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
September	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
October	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
November	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45
December	2017	0		1,627	0	0	0	1,876	49	51	49	0.49	0.45

Appendix C.3 Residential Duct Sealing Program 2012 - 2017

Table 2. EM&V Data Incremental by Vintage Year						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		8		-	8	2012		1,946		-	1,946
2013		108		-	108	2013		76,759		-	76,759
2014		401		-	401	2014		70,234		-	70,234
2015		1,860		323	2,183	2015		598,792		146,730	745,521
2016		658		217	875	2016		205,001		95,389	300,390
2017		264		14	278	2017		137,557		7,734	145,291

Table 3. EM&V Data Annualized by Vintage Year						Table 3. EM&V Data Annualized by Vintage Year					
Program Participants						Gross Annualized Energy (kWh)					
		VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP
2012		8		-	8	2012		10,093		-	10,093
2013		108		-	108	2013		120,772		-	120,772
2014		401		-	401	2014		264,570		-	264,570
2015		1,860		323	2,183	2015		1,024,299		201,495	1,225,794
2016		658		217	875	2016		369,325		129,136	498,461
2017		264		14	278	2017		145,638		8,003	153,641

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)						Table 5. EM&V Data Accumulated through Vintage Year (for IRP)					
Program Participants						Gross Energy (kWh)					
		VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP
2012		8		-	8	2012		1,946		-	1,946
2013		116		-	116	2013		86,852		-	86,852
2014		517		-	517	2014		201,099		-	201,099
2015		2,377		323	2,700	2015		994,226		146,730	1,140,956
2016		3,035		540	3,575	2016		1,624,735		296,884	1,921,619
2017		3,299		554	3,853	2017		1,926,616		338,365	2,264,980

Appendix C.3 Residential Duct Sealing Program 2012 - 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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			12		-	12	243	-	243	1.45	-	1.45
2013			138		-	138	711	-	711	1.28	-	1.28
2014			217		-	217	175	-	175	0.54	-	0.54
2015			839		148	987	322	454	342	0.45	0.46	0.45
2016			302		95	397	312	440	343	0.46	0.44	0.45
2017			119		6	125	521	552.44	523	0.45	0.42	0.45

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			12		-	12	1,262	-	1,262	1.45	-	1.45
2013			138		-	138	1,118	-	1,118	1.28	-	1.28
2014			217		-	217	660	-	660	0.54	-	0.54
2015			839		148	987	551	624	562	0.45	0.46	0.45
2016			302		95	397	561	595	570	0.46	0.44	0.45
2017			119		6	125	552	572	553	0.45	0.42	0.45

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							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	NC	System
2012			12		-	12	243	-	243	1.45	-	1.45
2013			149		-	149	749	-	749	1.29	-	1.29
2014			366		-	366	389	-	389	0.71	-	0.71
2015			1,205		148	1,354	418	454	423	0.51	0.46	0.50
2016			1,508		243	1,751	535	550	538	0.50	0.45	0.49
2017			1,627		249	1,876	584	611	588	0.49	0.45	0.49

Appendix C.4 Residential Home Energy Check-up Program 2012 - 2017

PROGRAM: Residential Home Energy Check-Up
DSM Phase II Program
Type: Energy Efficiency
Program Measure Life: 10.0 years

Table 1		Participation Program Participants							Table 1		Energy Savings Gross kWh						
Month	Year	VA		NC			System		Month	Year	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
		[A]	[-A retired]	[E] = Σ[A] + Σ[-A retired]	[C]	[-C retired]	[G] = Σ[C] + Σ[-C retired]	E+G									
October	2012	4		4				4	October	2012	251		251			251	
November	2012	6		10				10	November	2012	431		681			681	
December	2012	21		31				31	December	2012	1,359		2,040			2,040	
January	2013	22		53				53	January	2013	1,254		3,295			3,295	
February	2013	37		90				90	February	2013	2,137		5,431			5,431	
March	2013	14		104				104	March	2013	905		6,336			6,336	
April	2013	27		131				131	April	2013	1,636		7,972			7,972	
May	2013	42		173				173	May	2013	2,691		10,663			10,663	
June	2013	15		188				188	June	2013	903		11,566			11,566	
July	2013	15		203				203	July	2013	1,030		12,596			12,596	
August	2013	61		264				264	August	2013	3,878		16,474			16,474	
September	2013	75		339				339	September	2013	4,678		21,152			21,152	
October	2013	219		558				558	October	2013	13,348		34,500			34,500	
November	2013	305		863				863	November	2013	18,822		53,322			53,322	
December	2013	737		1,600				1,600	December	2013	45,125		98,448			98,448	
January	2014	540		2,140	0		0	2,140	January	2014	21,730		120,178	0		120,178	
February	2014	942		3,082	0		0	3,082	February	2014	39,481		159,659	0		159,659	
March	2014	877		3,959	0		0	3,959	March	2014	34,726		194,385	0		194,385	
April	2014	1,372		5,331	0		0	5,331	April	2014	58,089		252,474	0		252,474	
May	2014	1,247		6,578	0		0	6,578	May	2014	49,930		302,405	0		302,405	
June	2014	1,751		8,329	0		0	8,329	June	2014	68,114		370,519	0		370,519	
July	2014	2,023		10,352	0		0	10,352	July	2014	73,873		444,392	0		444,392	
August	2014	2,079		12,431	0		0	12,431	August	2014	80,458		524,849	0		524,849	
September	2014	3,222		15,653	0		0	15,653	September	2014	165,970		690,819	0		690,819	
October	2014	1,739		17,392	0		0	17,392	October	2014	90,281		781,100	0		781,100	
November	2014	544		17,936	0		0	17,936	November	2014	29,805		810,905	0		810,905	
December	2014	3,366		21,302	0		0	21,302	December	2014	168,629		979,535	0		979,535	
January	2015	1,829		23,131	0		0	23,131	January	2015	74,464		1,053,999	0		1,053,999	
February	2015	985		24,116	152		152	24,268	February	2015	40,442		1,094,442	9,902		1,104,344	
March	2015	957		25,073	156		308	25,381	March	2015	37,809		1,132,250	8,686		1,150,837	
April	2015	906		25,979	128		436	26,415	April	2015	33,398		1,165,648	6,216		1,190,451	
May	2015	1,038		27,017	237		673	27,690	May	2015	36,994		1,202,642	10,531		1,237,976	
June	2015	1,227		28,244	200		873	29,117	June	2015	49,120		1,251,762	8,935		1,296,032	
July	2015	1,219		29,463	86		959	30,422	July	2015	48,873		1,300,635	3,355		1,348,260	
August	2015	1,355		30,818	5		964	31,782	August	2015	55,266		1,355,901	219		1,403,744	
September	2015	1,500		32,318	27		991	33,309	September	2015	67,609		1,423,510	1,314		1,472,668	
October	2015	1,121		33,439	4		995	34,434	October	2015	46,778		1,470,288	214		1,519,660	
November	2015	1,107		34,546	0		995	35,541	November	2015	51,943		1,522,231	0		1,571,602	
December	2015	616		35,162	1		996	36,158	December	2015	26,804		1,549,035	59		1,598,466	
January	2016	737		35,899	3		999	36,898	January	2016	25,870		1,574,904	97		1,624,433	
February	2016	889		36,788	1		1,000	37,788	February	2016	35,940		1,610,844	27		1,660,400	
March	2016	1,301		38,089	0		1,000	39,089	March	2016	44,722		1,655,566	0		1,705,122	
April	2016	1,804		39,893	0		1,000	40,893	April	2016	61,302		1,716,869	0		1,766,424	
May	2016	2,211		42,104	0		1,000	43,104	May	2016	78,783		1,795,652	0		1,845,208	
June	2016	1,360		43,464	0		1,000	44,464	June	2016	44,024		1,839,676	0		1,889,231	
July	2016	1,348		44,812	0		1,000	45,812	July	2016	51,664		1,891,340	0		1,940,396	
August	2016	1,913		46,725	0		1,000	47,725	August	2016	75,031		1,966,371	0		2,015,927	
September	2016	880		47,605	0		1,000	48,605	September	2016	34,863		2,001,235	0		2,050,790	
October	2016	1,074		48,679	0		1,000	49,679	October	2016	39,961		2,041,196	0		2,090,752	
November	2016	1,328		50,007	0		1,000	51,007	November	2016	57,410		2,098,606	0		2,148,162	
December	2016	407		50,414	0		1,000	51,414	December	2016	17,385		2,115,991	0		2,165,547	
January	2017	1,069		51,483	5		1,005	52,488	January	2017	50,028		2,166,019	475		2,216,050	
February	2017	377		51,860	39		1,044	52,904	February	2017	16,470		2,182,488	2,055		2,234,574	
March	2017	54		51,914	5		1,049	52,963	March	2017	2,467		2,184,956	391		2,237,432	
April	2017	0		51,914	0		1,049	52,963	April	2017	0		2,184,956	0		2,237,432	
May	2017	0		51,914	0		1,049	52,963	May	2017	0		2,184,956	0		2,237,432	
June	2017	0		51,914	0		1,049	52,963	June	2017	0		2,184,956	0		2,237,432	
July	2017	0		51,914	0		1,049	52,963	July	2017	0		2,184,956	0		2,237,432	
August	2017	0		51,914	0		1,049	52,963	August	2017	0		2,184,956	0		2,237,432	
September	2017	0		51,914	0		1,049	52,963	September	2017	0		2,184,956	0		2,237,432	
October	2017	0		51,914	0		1,049	52,963	October	2017	0		2,184,956	0		2,237,432	
November	2017	0		51,914	0		1,049	52,963	November	2017	0		2,184,956	0		2,237,432	
December	2017	0		51,914	0		1,049	52,963	December	2017	0		2,184,956	0		2,237,432	

Appendix C.4 Residential Home Energy Check-up Program 2012 - 2017

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Table 1		Capacity Savings Gross kW							Energy Savings / Participant Gross kWh/Participant for IRP			Capacity Savings / Participant Gross kW/Participant for IRP		
Month	Year	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						
October	2012	0		0				0	63		63	0.11		0.11
November	2012	1		1				1	68		68	0.11		0.11
December	2012	2		3				3	66		66	0.10		0.10
January	2013	2		5				5	62		62	0.10		0.10
February	2013	3		8				8	60		60	0.09		0.09
March	2013	1		10				10	61		61	0.09		0.09
April	2013	2		12				12	61		61	0.09		0.09
May	2013	4		16				16	62		62	0.09		0.09
June	2013	1		18				18	62		62	0.09		0.09
July	2013	1		19				19	62		62	0.09		0.09
August	2013	6		25				25	62		62	0.09		0.09
September	2013	7		32				32	62		62	0.09		0.09
October	2013	20		51				51	62		62	0.09		0.09
November	2013	28		79				79	62		62	0.09		0.09
December	2013	64		143				143	62		62	0.09		0.09
January	2014	29		172	0		0	172	56	-	56	0.08	-	0.08
February	2014	52		225	0		0	225	52	-	52	0.07	-	0.07
March	2014	47		272	0		0	272	49	-	49	0.07	-	0.07
April	2014	76		348	0		0	348	47	-	47	0.07	-	0.07
May	2014	66		414	0		0	414	46	-	46	0.06	-	0.06
June	2014	94		508	0		0	508	44	-	44	0.06	-	0.06
July	2014	112		620	0		0	620	43	-	43	0.06	-	0.06
August	2014	115		735	0		0	735	42	-	42	0.06	-	0.06
September	2014	192		927	0		0	927	44	-	44	0.06	-	0.06
October	2014	101		1,028	0		0	1,028	45	-	45	0.06	-	0.06
November	2014	30		1,058	0		0	1,058	45	-	45	0.06	-	0.06
December	2014	191		1,249	0		0	1,249	46	-	46	0.06	-	0.06
January	2015	94		1,343	0		0	1,343	46	-	46	0.06	-	0.06
February	2015	52		1,395	10		10	1,405	45	65	46	0.06	0.07	0.06
March	2015	49		1,444	9		19	1,463	45	60	45	0.06	0.06	0.06
April	2015	42		1,486	7		26	1,511	45	57	45	0.06	0.06	0.06
May	2015	46		1,532	11		37	1,569	45	53	45	0.06	0.05	0.06
June	2015	61		1,593	10		47	1,640	44	51	45	0.06	0.05	0.06
July	2015	58		1,652	4		50	1,702	44	50	44	0.06	0.05	0.06
August	2015	66		1,718	0		50	1,768	44	50	44	0.06	0.05	0.06
September	2015	78		1,796	1		52	1,848	44	50	44	0.06	0.05	0.06
October	2015	55		1,851	0		52	1,903	44	50	44	0.06	0.05	0.06
November	2015	60		1,911	0		52	1,963	44	50	44	0.06	0.05	0.06
December	2015	32		1,944	0		52	1,996	44	50	44	0.06	0.05	0.06
January	2016	33		1,977	0		52	2,029	44	50	44	0.06	0.05	0.05
February	2016	43		2,020	0		52	2,072	44	50	44	0.05	0.05	0.05
March	2016	56		2,076	0		52	2,128	43	50	44	0.05	0.05	0.05
April	2016	78		2,153	0		52	2,206	43	50	43	0.05	0.05	0.05
May	2016	100		2,253	0		52	2,305	43	50	43	0.05	0.05	0.05
June	2016	56		2,309	0		52	2,362	42	50	42	0.05	0.05	0.05
July	2016	63		2,372	0		52	2,424	42	50	42	0.05	0.05	0.05
August	2016	88		2,460	0		52	2,513	42	50	42	0.05	0.05	0.05
September	2016	42		2,502	0		52	2,554	42	50	42	0.05	0.05	0.05
October	2016	48		2,550	0		52	2,602	42	50	42	0.05	0.05	0.05
November	2016	66		2,616	0		52	2,668	42	50	42	0.05	0.05	0.05
December	2016	21		2,637	0		52	2,689	42	50	42	0.05	0.05	0.05
January	2017	55		2,692	0		53	2,744	42	50	42	0.05	0.05	0.05
February	2017	19		2,710	2		54	2,765	42	50	42	0.05	0.05	0.05
March	2017	3		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
April	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
May	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
June	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
July	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
August	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
September	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
October	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
November	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05
December	2017	0		2,713	0		55	2,768	42	50	42	0.05	0.05	0.05

Appendix C.4 Residential Home Energy Check-up Program 2012 - 2017

Table 2. EM&V Data Incremental by Vintage Year							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			31		-	31	2012		2,972		-	2,972	
2013			1,569		-	1,569	2013		257,270		-	257,270	
2014			19,702		-	19,702	2014		4,449,848		-	4,449,848	
2015			13,860		996	14,856	2015		3,767,927		425,696	4,193,623	
2016			15,252		4	15,256	2016		3,719,836		1,467	3,721,304	
2017			1,500		49	1,549	2017		806,172		32,215	838,387	

Table 3. EM&V Data Annualized by Vintage Year							Table 3. EM&V Data Annualized by Vintage Year						
Program Participants							Gross Annualized Energy (kWh)						
			VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP	
2012			31		-	31	2012		24,484		-	24,484	
2013			1,569		-	1,569	2013		1,156,888		-	1,156,888	
2014			19,702		-	19,702	2014		10,573,042		-	10,573,042	
2015			13,860		996	14,856	2015		6,834,001		593,172	7,427,173	
2016			15,252		4	15,256	2016		6,803,477		1,495	6,804,972	
2017			1,500		49	1,549	2017		827,576		35,051	862,628	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							Table 5. EM&V Data Accumulated through Vintage Year (for IRP)						
Program Participants							Gross Energy (kWh)						
			VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP	
2012			31		-	31	2012		2,972		-	2,972	
2013			1,600		-	1,600	2013		281,754		-	281,754	
2014			21,302		-	21,302	2014		5,631,219		-	5,631,219	
2015			35,162		996	36,158	2015		15,522,341		425,696	15,948,037	
2016			50,414		1,000	51,414	2016		22,308,251		594,640	22,902,891	
2017			51,914		1,049	52,963	2017		26,198,065		626,882	26,824,946	

Appendix C.4 Residential Home Energy Check-up Program 2012 - 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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			3		-	3	96	-	96	0.10	-	0.10
2013			140		-	140	164	-	164	0.09	-	0.09
2014			1,106		-	1,106	226	-	226	0.06	-	0.06
2015			695		52	747	272	427	282	0.05	0.05	0.05
2016			693		0.17	693	244	367	244	0.05	0.04	0.05
2017			76		2	79	537	657.45	541	0.05	0.05	0.05

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			3		-	3	790	-	790	0.10	-	0.10
2013			140		-	140	737	-	737	0.09	-	0.09
2014			1,106		-	1,106	537	-	537	0.06	-	0.06
2015			695		52	747	493	596	500	0.05	0.05	0.05
2016			693		0.17	693	446	374	446	0.05	0.04	0.05
2017			76		2	79	552	715	557	0.05	0.05	0.05

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							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	NC	System
2012			3		-	3	96	-	96	0.10	-	0.10
2013			143		-	143	176	-	176	0.09	-	0.09
2014			1,249		-	1,249	264	-	264	0.06	-	0.06
2015			1,944		52	1,996	441	427	441	0.06	0.05	0.06
2016			2,637		52	2,689	443	595	445	0.05	0.05	0.05
2017			2,713		55	2,768	505	598	506	0.05	0.05	0.05

Appendix C.5 Residential Income and Age Qualifying Home Improvement Program 2015 - 2017

PROGRAM: Residential Income and Age Qualifying Home Improvement Program
DSM Phase IV Program
Type: Energy Efficiency
Program Measure Life: 14.0 years

Table 1		Participation							Table 1		Energy Savings						
Month	Year	Program Participants							Month	Year	Gross kWh						
		VA		NC				System			VA		NC				System
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A 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	2015	0		0			0	0	January	2015	0		0				
February	2015	0		0			0	0	February	2015	0		0				
March	2015	0		0			0	0	March	2015	0		0			0	0
April	2015	0		0			0	0	April	2015	0		0			0	0
May	2015	0		0			0	0	May	2015	0		0			0	0
June	2015	0		0			0	0	June	2015	0		0			0	0
July	2015	0		0			0	0	July	2015	0		0			0	0
August	2015	0		0			0	0	August	2015	0		0			0	0
September	2015	0		0			0	0	September	2015	0		0			0	0
October	2015	44		44			0	44	October	2015	2,281		2,281			0	2,281
November	2015	712		756			0	756	November	2015	53,883		56,164			0	56,164
December	2015	767		1,523			0	1,523	December	2015	25,855		82,019			0	82,019
January	2016	114		1,637	0		0	1,637	January	2016	4,539		86,558	0		0	86,558
February	2016	224		1,861	0		0	1,861	February	2016	6,899		93,457	0		0	93,457
March	2016	295		2,156	0		0	2,156	March	2016	14,316		107,773	0		0	107,773
April	2016	544		2,700	0		0	2,700	April	2016	19,114		126,888	0		0	126,888
May	2016	319		3,019	0		0	3,019	May	2016	9,925		136,812	0		0	136,812
June	2016	623		3,642	0		0	3,642	June	2016	22,148		158,960	0		0	158,960
July	2016	638		4,280	20		20	4,300	July	2016	24,233		183,193	973		973	184,166
August	2016	1,891		6,171	12		32	6,203	August	2016	63,722		246,915	622		1,596	248,511
September	2016	769		6,940	9		41	6,981	September	2016	30,733		277,648	544		2,140	279,788
October	2016	904		7,844	25		66	7,910	October	2016	27,675		305,323	1,248		3,388	308,711
November	2016	1,566		9,410	37		103	9,513	November	2016	56,461		361,784	2,965		6,353	368,136
December	2016	516		9,926	54		157	10,083	December	2016	18,193		379,977	2,512		8,865	388,842
January	2017	428		10,354	42		199	10,553	January	2017	18,352		398,329	3,422		12,287	410,616
February	2017	202		10,556	16		215	10,771	February	2017	4,908		403,237	871		13,157	416,395
March	2017	737		11,293	12		227	11,520	March	2017	38,804		442,041	918		14,076	456,117
April	2017	507		11,800	13		240	12,040	April	2017	18,499		460,540	594		14,669	475,209
May	2017	617		12,417	6		246	12,663	May	2017	25,937		486,477	360		15,029	501,506
June	2017	585		13,002	4		250	13,252	June	2017	18,400		504,877	225		15,253	520,131
July	2017	443		13,445	2		252	13,697	July	2017	11,618		516,495	152		15,405	531,900
August	2017	252		13,697	4		256	13,953	August	2017	10,035		526,531	456		15,861	542,392
September	2017	101		13,798	2		258	14,056	September	2017	2,840		529,371	443		16,304	545,675
October	2017	513		14,311	0		258	14,569	October	2017	15,534		544,904	0		16,304	561,209
November	2017	822		15,133	7		265	15,398	November	2017	20,094		564,999	364		16,668	581,667
December	2017	763		15,896	22		287	16,183	December	2017	17,623		582,622	1,347		18,014	600,636

Appendix C.5 Residential Income and Age Qualifying Home Improvement Program 2015 - 2017

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Table 1		Capacity Savings							Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Net 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	2015	0		0					-	-	-	-	-	-
February	2015	0		0					-	-	-	-	-	-
March	2015	0		0			0	0	-	-	-	-	-	-
April	2015	0		0			0	0	-	-	-	-	-	-
May	2015	0		0			0	0	-	-	-	-	-	-
June	2015	0		0			0	0	-	-	-	-	-	-
July	2015	0		0			0	0	-	-	-	-	-	-
August	2015	0		0			0	0	-	-	-	-	-	-
September	2015	0		0			0	0	-	-	-	-	-	-
October	2015	3		3			0	3	52	-	52	0.06	-	0.06
November	2015	45		48			0	48	74	-	74	0.06	-	0.06
December	2015	32		80			0	80	54	-	54	0.05	-	0.05
January	2016	5		85	0		0	85	53	-	53	0.05	-	0.05
February	2016	12		97	0		0	97	50	-	50	0.05	-	0.05
March	2016	18		115	0		0	115	50	-	50	0.05	-	0.05
April	2016	25		140	0		0	140	47	-	47	0.05	-	0.05
May	2016	13		153	0		0	153	45	-	45	0.05	-	0.05
June	2016	28		181	0		0	181	44	-	44	0.05	-	0.05
July	2016	30		212	1		1	213	43	49	43	0.05	0.07	0.05
August	2016	87		298	1		2	301	40	50	40	0.05	0.07	0.05
September	2016	35		333	1		3	336	40	52	40	0.05	0.07	0.05
October	2016	38		372	2		4	376	39	51	39	0.05	0.07	0.05
November	2016	84		456	3		8	463	38	62	39	0.05	0.07	0.05
December	2016	22		478	3		11	489	38	56	39	0.05	0.07	0.05
January	2017	19		497	3		14	511	38	62	39	0.05	0.07	0.05
February	2017	7		505	1		15	519	38	61	39	0.05	0.07	0.05
March	2017	37		541	1		16	557	39	62	40	0.05	0.07	0.05
April	2017	21		562	1		17	579	39	61	39	0.05	0.07	0.05
May	2017	29		591	0		17	608	39	61	40	0.05	0.07	0.05
June	2017	22		613	0		17	630	39	61	39	0.05	0.07	0.05
July	2017	15		628	0		17	645	38	61	39	0.05	0.07	0.05
August	2017	9		637	0		18	655	38	62	39	0.05	0.07	0.05
September	2017	4		640	0		18	658	38	63	39	0.05	0.07	0.05
October	2017	17		657	0		18	675	38	63	39	0.05	0.07	0.05
November	2017	27		684	0		18	702	37	63	38	0.05	0.07	0.05
December	2017	23		706	1		20	726	37	63	37	0.04	0.07	0.04

Appendix C.5 Residential Income and Age Qualifying Home Improvement Program 2015 - 2017

Table 2. EM&V Data Incremental by Vintage Year						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
2015		1,523		-	1,523	2015		140,465		-	140,465
2016		8,403		157	8,560	2016		1,481,057		23,315	1,504,371
2017		5,970		130	6,100	2017		1,400,701		76,649	1,477,350

Table 3. EM&V Data Annualized by Vintage Year						Table 3. EM&V Data Annualized by Vintage Year					
Program Participants						Gross Annualized Energy (kWh)					
		VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP
2015		1,523		-	1,523	2015		984,230		-	984,230
2016		8,403		157	8,560	2016		3,575,492		106,379	3,681,872
2017		5,970		130	6,100	2017		2,431,737		109,794	2,541,531

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)						Table 5. EM&V Data Accumulated through Vintage Year (for IRP)					
Program Participants						Gross Energy (kWh)					
		VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP
2015		1,523		-	1,523	2015		140,465		-	140,465
2016		9,926		157	10,083	2016		2,465,287		23,315	2,488,602
2017		15,896		287	16,183	2017		5,960,423		183,029	6,143,452

Appendix C.5 Residential Income and Age Qualifying Home Improvement Program 2015 - 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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
2015			80			-	80	92	-	92	0.05	-	0.05
2016			398			11	409	176	149	176	0.05	0.07	0.07
2017			228			9	237	235	589.61	242	0.04	0.07	0.04

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
2015			80			-	80	646	-	646	0.05	-	0.05
2016			398			11	409	426	678	430	0.05	0.07	0.05
2017			228			9	237	407	845	417	0.04	0.07	0.04

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)								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	NC	System
2015			80			-	80	92	-	92	0.05	-	0.05
2016			478			11	489	248	149	247	0.05	0.07	0.05
2017			706			20	726	375	638	380	0.04	0.07	0.04

Appendix C.6 Residential Appliance Recycling Program 2015 - 2017

PROGRAM: Residential Appliance Recycling Program
DSM Phase IV Program
Type: Energy Efficiency
Program Measure Life: 8.0 years

Table 1 Participation								Table 1 Energy Savings							
Program Participants								Gross kWh							
Month	Year	VA		NC		System		Month	Year	VA		NC		System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired) [E] = 2[A] + 2[-A retired]	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)			VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)
		[A]	[-A retired]												
January	2015	0		0			0	January	2015	0		0			0
February	2015	0		0			0	February	2015	0		0			0
March	2015	0		0			0	March	2015	0		0			0
April	2015	0		0			0	April	2015	0		0			0
May	2015	0		0			0	May	2015	0		0			0
June	2015	0		0			0	June	2015	0		0			0
July	2015	0		0			0	July	2015	0		0			0
August	2015	0		0			0	August	2015	0		0			0
September	2015	921		921			0	September	2015	87,547		87,547			87,547
October	2015	1,008		1,929			0	October	2015	97,487		185,034			185,034
November	2015	1,070		2,999			0	November	2015	97,027		282,062			282,062
December	2015	207		3,206			0	December	2015	19,468		301,530			301,530
January	2016	203		3,409	0		0	January	2016	4,151		305,681	0		305,681
February	2016	4		3,413	0		0	February	2016	418		306,099	0		306,099
March	2016	876		4,289	0		0	March	2016	65,927		372,026	0		372,026
April	2016	653		4,942	0		0	April	2016	52,456		424,482	0		424,482
May	2016	525		5,467	0		0	May	2016	40,844		465,326	0		465,326
June	2016	1,204		6,671	0		0	June	2016	98,785		564,111	0		564,111
July	2016	521		7,192	0		0	July	2016	42,735		606,846	0		606,846
August	2016	1,102		8,294	0		0	August	2016	96,035		702,881	0		702,881
September	2016	671		8,965	0		0	September	2016	58,181		761,062	0		761,062
October	2016	615		9,580	0		0	October	2016	52,902		813,964	0		813,964
November	2016	713		10,293	0		0	November	2016	61,607		875,571	0		875,571
December	2016	648		10,941	0		0	December	2016	55,301		930,872	0		930,872
January	2017	816		11,757	0		0	January	2017	67,673		998,545	0		998,545
February	2017	313		12,070	0		0	February	2017	25,659		1,024,204	0		1,024,204
March	2017	416		12,486	0		0	March	2017	32,960		1,057,164	0		1,057,164
April	2017	511		12,997	0		0	April	2017	41,653		1,098,817	0		1,098,817
May	2017	584		13,581	0		0	May	2017	46,444		1,145,261	0		1,145,261
June	2017	475		14,056	0		0	June	2017	36,073		1,181,334	0		1,181,334
July	2017	16		14,072	0		0	July	2017	908		1,182,242	0		1,182,242
August	2017	0		14,072	0		0	August	2017	0		1,182,242	0		1,182,242
September	2017	0		14,072	0		0	September	2017	0		1,182,242	0		1,182,242
October	2017	0		14,072	0		0	October	2017	0		1,182,242	0		1,182,242
November	2017	0		14,072	0		0	November	2017	0		1,182,242	0		1,182,242
December	2017	0		14,072	0		0	December	2017	0		1,182,242	0		1,182,242

Appendix C.6 Residential Appliance Recycling Program 2015 - 2017

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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	2015	0		0					-	-	-	-	-	-
February	2015	0		0					-	-	-	-	-	-
March	2015	0		0			0	0	-	-	-	-	-	-
April	2015	0		0			0	0	-	-	-	-	-	-
May	2015	0		0			0	0	-	-	-	-	-	-
June	2015	0		0			0	0	-	-	-	-	-	-
July	2015	0		0			0	0	-	-	-	-	-	-
August	2015	0		0			0	0	-	-	-	-	-	-
September	2015	157		157			0	157	95	-	95	0.17	-	0.17
October	2015	175		332			0	332	96	-	96	0.17	-	0.17
November	2015	174		507			0	507	94	-	94	0.17	-	0.17
December	2015	35		542			0	542	94	-	94	0.17	-	0.17
January	2016	7		549	0		0	549	90	-	90	0.16	-	0.16
February	2016	1		550	0		0	550	90	-	90	0.16	-	0.16
March	2016	118		668	0		0	668	87	-	87	0.16	-	0.16
April	2016	94		762	0		0	762	86	-	86	0.15	-	0.15
May	2016	73		836	0		0	836	85	-	85	0.15	-	0.15
June	2016	177		1,013	0		0	1,013	85	-	85	0.15	-	0.15
July	2016	77		1,090	0		0	1,090	84	-	84	0.15	-	0.15
August	2016	172		1,262	0		0	1,262	85	-	85	0.15	-	0.15
September	2016	105		1,367	0		0	1,367	85	-	85	0.15	-	0.15
October	2016	95		1,462	0		0	1,462	85	-	85	0.15	-	0.15
November	2016	111		1,573	0		0	1,573	85	-	85	0.15	-	0.15
December	2016	99		1,672	0		0	1,672	85	-	85	0.15	-	0.15
January	2017	122		1,794	0		0	1,794	85	-	85	0.15	-	0.15
February	2017	46		1,840	0		0	1,840	85	-	85	0.15	-	0.15
March	2017	59		1,899	0		0	1,899	85	-	85	0.15	-	0.15
April	2017	75		1,974	0		0	1,974	85	-	85	0.15	-	0.15
May	2017	83		2,057	0		0	2,057	84	-	84	0.15	-	0.15
June	2017	65		2,122	0		0	2,122	84	-	84	0.15	-	0.15
July	2017	2		2,123	0		0	2,123	84	-	84	0.15	-	0.15
August	2017	0		2,123	0		0	2,123	84	-	84	0.15	-	0.15
September	2017	0		2,123	0		0	2,123	84	-	84	0.15	-	0.15
October	2017	0		2,123	0		0	2,123	84	-	84	0.15	-	0.15
November	2017	0		2,123	0		0	2,123	84	-	84	0.15	-	0.15
December	2017	0		2,123	0		0	2,123	84	-	84	0.15	-	0.15

Appendix C.6 Residential Appliance Recycling Program 2015 - 2017

Table 2. EM&V Data Incremental by Vintage Year								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
2015			3,206			-	3,206	2015			856,173			-	856,173
2016			7,735			-	7,735	2016			3,510,563			-	3,510,563
2017			3,131			-	3,131	2017			2,428,307			-	2,428,307

Table 3. EM&V Data Annualized by Vintage Year										Table 3. EM&V Data Annualized by Vintage Year									
	Program Participants							Gross Annualized Energy (kWh)											
			VA IRP			NC IRP		System IRP			VA IRP			NC IRP	System IRP				
2015			3,206			-	3,206	2015			3,618,359			-	3,618,359				
2016			7,735			-	7,735	2016			7,552,110			-	7,552,110				
2017			3,131			-	3,131	2017			3,016,432			-	3,016,432				

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)								Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							
	Program Participants							Gross Energy (kWh)							
			VA IRP			NC IRP		System IRP			VA IRP			NC IRP	System IRP
2015			3,206			-	3,206	2015		856,173			-	856,173	
2016			10,941			-	10,941	2016		7,128,922			-	7,128,922	
2017			14,072			-	14,072	2017		13,598,776			-	13,598,776	

Appendix C.6 Residential Appliance Recycling Program 2015 - 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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
2015			542		-	542	267	-	267	0.17	-	0.17
2016			1,130		-	1,130	454	-	454	0.15	-	0.15
2017			451		-	451	776	-	776	0.14	-	0.14

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
2015			542		-	542	1,129	-	1,129	0.17	-	0.17
2016			1,130		-	1,130	976	-	976	0.15	-	0.15
2017			451		-	451	963	-	963	0.14	-	0.14

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							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	NC	System
2015			542		-	542	267	-	267	0.17	-	0.17
2016			1,672		-	1,672	652	-	652	0.15	-	0.15
2017			2,123		-	2,123	966	-	966	0.15	-	0.15

Appendix C.7 Residential Retail LED Lighting Program 2017

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

Table 1		Participation							Table 1		Energy Savings						
Month	Year	Program Participants							Month	Year	Gross kWh						
		VA			NC		System				VA			NC		System	
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C 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
December	2016				0	0		0	December	2016							0
January	2017				0	0		0	January	2017				0			0
February	2017				0	0		0	February	2017				0			0
March	2017				0	0		0	March	2017				0			0
April	2017				0	0		0	April	2017				0			0
May	2017				0	0		0	May	2017				0			0
June	2017				0	0		0	June	2017				0			0
July	2017				0	0		0	July	2017				0			0
August	2017				0	5,018	5,018	5,018	August	2017				15,005		15,005	15,005
September	2017				0	14,683	19,701	19,701	September	2017				43,180		58,185	58,185
October	2017				0	14,758	34,459	34,459	October	2017				43,747		101,932	101,932
November	2017				0	19,836	54,295	54,295	November	2017				61,393		163,325	163,325
December	2017				0	15,966	70,261	70,261	December	2017				49,153		212,478	212,478

Appendix C.7 Residential Retail LED Lighting Program 2017

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		VA Cum. for IRP (New+Retired)	NC		System Cum for IRP	VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired		NC Monthly New	NC Monthly Retired							
December	2016						0						
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			0	17		17	-	3	3	-	0.00	0.00
September	2017			0	49		66	-	3	3	-	0.00	0.00
October	2017			0	50		116	-	3	3	-	0.00	0.00
November	2017			0	70		186	-	3	3	-	0.00	0.00
December	2017			0	56		242	-	3	3	-	0.00	0.00

Appendix C.7 Residential Retail LED Lighting Program 2017

Table 2. EM&V Data Incremental by Vintage Year							Table 2. EM&V Data Incremental by Vintage Year								
	Program Participants							Gross Incremental Energy (kWh)							
			VA IRP			NC IRP				VA IRP			NC IRP	System IRP	
2017			-			70,261	70,261	2017			-			550,927	550,927

Table 3. EM&V Data Annualized by Vintage Year							Table 3. EM&V Data Annualized by Vintage Year								
	Program Participants							Gross Annualized Energy (kWh)							
			VA IRP			NC IRP				VA IRP			NC IRP	System IRP	
2017			-			70,261	70,261	2017			-			2,549,741	2,549,741

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							Table 5. EM&V Data Accumulated through Vintage Year (for IRP)								
	Program Participants							Gross Energy (kWh)							
			VA IRP			NC IRP				VA IRP			NC IRP	System IRP	
2017			-			70,261	70,261	2017			-			550,927	550,927

Appendix C.7 Residential Retail LED Lighting Program 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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
2017			-		242	242	-	-	8	-	-	0.00

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
2017			-		242	242	-	36	36	-	0.00	0.00

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							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	NC	System
2017			-		242	242	-	8	8	-	0.00	0.00

Appendix C.8 Non-residential Duct Testing and Sealing Program 2012 - 2017

PROGRAM: Non-Residential Duct Testing & Sealing
DSM Phase II Program
Type: Energy Efficiency
Program Measure Life: 25.0 years

Table 1									Table 1								
Participation Program Participants									Energy Savings Gross kWh								
Month	Year	VA		VA Cum. for IRP (New + Retired)	NC		NC Cum. for IRP (New + Retired)	System Cum for IRP	Month	Year	VA		VA Cum. for IRP (New + Retired)	NC		NC Cum. for IRP (New + Retired)	System Cum for IRP
		VA Monthly New	VA Monthly Retired		NC Monthly New	NC Monthly Retired					VA Monthly New	VA Monthly Retired		NC Monthly New	NC Monthly Retired		
		[A]	[-A retired]	[E] = Σ[A] + Σ[-A retired]	[C]	[-C retired]	[G] = Σ[C] + Σ[-C retired]	E+G									
October	2012	0		0					0	October	2012	0					0
November	2012	1		1					1	November	2012	180					180
December	2012	10		11					11	December	2012	6,299					6,478
January	2013	2		13					13	January	2013	2,354					8,832
February	2013	0		13					13	February	2013	0					8,832
March	2013	8		21					21	March	2013	2,611					11,443
April	2013	17		38					38	April	2013	2,652					14,095
May	2013	12		50					50	May	2013	3,722					17,816
June	2013	4		54					54	June	2013	294					18,110
July	2013	27		81					81	July	2013	13,795					31,905
August	2013	24		105					105	August	2013	7,827					39,733
September	2013	67		172					172	September	2013	27,826					67,559
October	2013	63		235					235	October	2013	31,396					98,955
November	2013	30		265					265	November	2013	11,454					110,409
December	2013	103		368					368	December	2013	43,210					153,619
January	2014	22		390	0		0	390	390	January	2014	13,218				0	166,837
February	2014	106		496	0		0	496	496	February	2014	72,076				0	238,913
March	2014	243		739	0		0	739	739	March	2014	111,865				0	350,779
April	2014	125		864	0		0	864	864	April	2014	181,627				0	532,406
May	2014	115		979	0		0	979	979	May	2014	102,031				0	634,437
June	2014	98		1,077	0		0	1,077	1,077	June	2014	129,825				0	764,262
July	2014	166		1,243	0		0	1,243	1,243	July	2014	287,856				0	1,052,118
August	2014	190		1,433	0		0	1,433	1,433	August	2014	210,867				0	1,262,985
September	2014	206		1,639	0		0	1,639	1,639	September	2014	363,779				0	1,626,764
October	2014	212		1,851	0		0	1,851	1,851	October	2014	497,583				0	2,124,347
November	2014	137		1,988	46		46	2,034	2,034	November	2014	291,989			45,596		2,461,932
December	2014	80		2,068	14		60	2,128	2,128	December	2014	109,813			4,062		2,575,807
January	2015	100		2,168	12		72	2,240	2,240	January	2015	201,891			35,926		2,813,623
February	2015	81		2,249	4		76	2,325	2,325	February	2015	116,805			1,316		2,931,744
March	2015	116		2,365	2		78	2,443	2,443	March	2015	103,437			2,005		3,037,186
April	2015	193		2,558	62		140	2,698	2,698	April	2015	167,457			62,291		3,266,934
May	2015	112		2,670	13		153	2,823	2,823	May	2015	59,933			20,520		3,347,387
June	2015	215		2,885	40		193	3,078	3,078	June	2015	198,698			37,871		3,583,955
July	2015	101		2,986	9		202	3,188	3,188	July	2015	58,395			20,271		3,662,621
August	2015	207		3,193	7		209	3,402	3,402	August	2015	231,905			13,363		3,907,889
September	2015	250		3,443	0		209	3,653	3,653	September	2015	217,522			0		4,125,410
October	2015	89		3,532	2		211	3,743	3,743	October	2015	87,673			2,992		4,216,076
November	2015	93		3,625	1		212	3,837	3,837	November	2015	88,982			3,513		4,308,571
December	2015	98		3,723	0		212	3,935	3,935	December	2015	174,646			0		4,483,217
January	2016	49		3,772	0		212	3,984	3,984	January	2016	185,981			0		4,669,198
February	2016	59		3,831	1		213	4,044	4,044	February	2016	125,309			2,697		4,797,203
March	2016	41		3,872	0		213	4,085	4,085	March	2016	64,244			0		4,861,447
April	2016	47		3,919	4		217	4,136	4,136	April	2016	216,137			273		5,077,856
May	2016	21		3,940	3		220	4,160	4,160	May	2016	212,483			500		5,290,839
June	2016	61		4,001	5		225	4,226	4,226	June	2016	453,430			336		5,744,605
July	2016	52		4,053	4		229	4,283	4,283	July	2016	112,152			16,577		5,873,333
August	2016	43		4,096	5		234	4,330	4,330	August	2016	141,750			17,786		6,032,869
September	2016	61		4,157	1		235	4,392	4,392	September	2016	182,701			235		6,215,805
October	2016	77		4,234	2		237	4,471	4,471	October	2016	193,533			1,068		6,410,406
November	2016	72		4,306	8		245	4,551	4,551	November	2016	182,431			6,374		6,599,211
December	2016	57		4,363	0		245	4,608	4,608	December	2016	125,904			0		6,725,115
January	2017	42		4,405	3		248	4,653	4,653	January	2017	240,780			844		6,966,739
February	2017	38		4,443	1		249	4,692	4,692	February	2017	111,162			847		7,078,748
March	2017	1		4,444	1		250	4,694	4,694	March	2017	2,335			13,663		7,094,747
April	2017	0		4,444	0		250	4,694	4,694	April	2017	0			0		7,094,747
May	2017	0		4,444	0		250	4,694	4,694	May	2017	0			0		7,094,747
June	2017	0		4,444	0		250	4,694	4,694	June	2017	0			0		7,094,747
July	2017	0		4,444	0		250	4,694	4,694	July	2017	0			0		7,094,747
August	2017	0		4,444	0		250	4,694	4,694	August	2017	0			0		7,094,747
September	2017	0		4,444	0		250	4,694	4,694	September	2017	0			0		7,094,747
October	2017	0		4,444	0		250	4,694	4,694	October	2017	0			0		7,094,747
November	2017	0		4,444	0		250	4,694	4,694	November	2017	0			0		7,094,747
December	2017	0		4,444	0		250	4,694	4,694	December	2017	0			0		7,094,747

Appendix C.8 Non-residential Duct Testing and Sealing Program 2012 - 2017

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May 01 2018

Table 1		Capacity Savings Gross kW							Energy Savings / Participant Gross kWh/Participant for IRP			Capacity Savings / Participant Gross kW/Participant for IRP		
Month	Year	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						
October	2012	0	0	0				0	-	-	-	-	-	-
November	2012	0	0	0				0	180		180	0.26		0.26
December	2012	8		8				8	589		589	0.73		0.73
January	2013	3		11				11	679		679	0.82		0.82
February	2013	0		11				11	679		679	0.82		0.82
March	2013	4		14				14	545		545	0.68		0.68
April	2013	6		20				20	371		371	0.53		0.53
May	2013	11		31				31	356		356	0.62		0.62
June	2013	5		36				36	335		335	0.67		0.67
July	2013	36		72				72	394		394	0.89		0.89
August	2013	44		116				116	378		378	1.10		1.10
September	2013	85		201				201	393		393	1.17		1.17
October	2013	68		269				269	421		421	1.14		1.14
November	2013	48		317				317	417		417	1.20		1.20
December	2013	199		516				516	417		417	1.40		1.40
January	2014	20		536	0		0	536	428	-	428	1.37	-	1.37
February	2014	104		640	0		0	640	482	-	482	1.29	-	1.29
March	2014	129		769	0		0	769	475	-	475	1.04	-	1.04
April	2014	222		991	0		0	991	616	-	616	1.15	-	1.15
May	2014	130		1,120	0		0	1,120	648	-	648	1.14	-	1.14
June	2014	135		1,255	0		0	1,255	710	-	710	1.17	-	1.17
July	2014	299		1,554	0		0	1,554	846	-	846	1.25	-	1.25
August	2014	174		1,728	0		0	1,728	881	-	881	1.21	-	1.21
September	2014	207		1,935	0		0	1,935	993	-	993	1.18	-	1.18
October	2014	240		2,175	0		0	2,175	1,148	-	1,148	1.18	-	1.18
November	2014	279		2,455	60		60	2,515	1,215	991	1,210	1.23	1.30	1.24
December	2014	112		2,567	5		65	2,632	1,222	828	1,210	1.24	1.08	1.24
January	2015	210		2,776	46		111	2,887	1,258	1,189	1,256	1.28	1.54	1.29
February	2015	186		2,962	1		112	3,075	1,265	1,143	1,261	1.32	1.48	1.32
March	2015	151		3,114	2		114	3,228	1,247	1,140	1,243	1.32	1.46	1.32
April	2015	218		3,332	102		216	3,548	1,218	1,080	1,211	1.30	1.54	1.32
May	2015	79		3,411	34		250	3,661	1,189	1,122	1,186	1.28	1.63	1.30
June	2015	402		3,813	56		306	4,119	1,170	1,086	1,164	1.32	1.59	1.34
July	2015	132		3,944	25		331	4,275	1,150	1,138	1,149	1.32	1.64	1.34
August	2015	319		4,264	19		349	4,613	1,148	1,164	1,149	1.34	1.67	1.36
September	2015	283		4,546	0		349	4,896	1,128	1,164	1,130	1.32	1.67	1.34
October	2015	142		4,688	4		353	5,041	1,124	1,167	1,126	1.33	1.67	1.35
November	2015	194		4,882	3		357	5,238	1,120	1,178	1,123	1.35	1.68	1.37
December	2015	198		5,080	0		357	5,437	1,137	1,178	1,139	1.36	1.68	1.38
January	2016	176		5,256	0		357	5,613	1,172	1,178	1,172	1.39	1.68	1.41
February	2016	126		5,383	9		365	5,748	1,186	1,185	1,186	1.41	1.72	1.42
March	2016	157		5,540	0		365	5,905	1,190	1,185	1,190	1.43	1.72	1.45
April	2016	179		5,718	1		366	6,085	1,231	1,164	1,228	1.46	1.69	1.47
May	2016	98		5,816	1		368	6,184	1,279	1,151	1,272	1.48	1.67	1.49
June	2016	330		6,147	2		370	6,516	1,372	1,127	1,359	1.54	1.64	1.54
July	2016	249		6,396	62		432	6,828	1,382	1,180	1,372	1.58	1.89	1.59
August	2016	327		6,724	69		501	7,225	1,403	1,230	1,393	1.64	2.14	1.67
September	2016	225		6,949	1		502	7,451	1,426	1,226	1,415	1.67	2.14	1.70
October	2016	228		7,177	2		504	7,681	1,446	1,220	1,434	1.70	2.13	1.72
November	2016	318		7,495	12		516	8,011	1,464	1,206	1,450	1.74	2.11	1.76
December	2016	179		7,674	0		516	8,190	1,474	1,206	1,459	1.76	2.11	1.78
January	2017	472		8,147	3		519	8,665	1,514	1,195	1,497	1.85	2.09	1.86
February	2017	219		8,366	2		520	8,886	1,526	1,194	1,509	1.88	2.09	1.89
March	2017	4		8,370	50		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
April	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
May	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
June	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
July	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
August	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
September	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
October	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
November	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90
December	2017	0		8,370	0		570	8,940	1,527	1,244	1,511	1.88	2.28	1.90

Appendix C.8 Non-residential Duct Testing and Sealing Program 2012 - 2017

Table 2. EM&V Data Incremental by Vintage Year							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		11			-	11	2012		6,658			-	6,658
2013		357			-	357	2013		503,567			-	503,567
2014		1,700			60	1,760	2014		11,852,909			95,254	11,948,162
2015		1,655			152	1,807	2015		11,114,984			1,659,949	12,774,933
2016		640			33	673	2016		14,255,540			243,747	14,499,288
2017		81			5	86	2017		4,135,501			156,081	4,291,582

Table 3. EM&V Data Annualized by Vintage Year							Table 3. EM&V Data Annualized by Vintage Year						
Program Participants							Gross Annualized Energy (kWh)						
		VA IRP			NC IRP	System IRP			VA IRP			NC IRP	System IRP
2012		11			-	11	2012		77,742			-	77,742
2013		357			-	357	2013		1,765,683			-	1,765,683
2014		1,700			60	1,760	2014		28,470,361			595,895	29,066,256
2015		1,655			152	1,807	2015		20,488,106			2,400,813	22,888,919
2016		640			33	673	2016		26,352,640			550,135	26,902,775
2017		81			5	86	2017		4,251,334			184,255	4,435,589

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							Table 5. EM&V Data Accumulated through Vintage Year (for IRP)						
Program Participants							Gross Energy (kWh)						
		VA IRP			NC IRP	System IRP			VA IRP			NC IRP	System IRP
2012		11			-	11	2012		6,658			-	6,658
2013		368			-	368	2013		581,309			-	581,309
2014		2,068			60	2,128	2014		13,696,333			95,254	13,791,587
2015		3,723			212	3,935	2015		41,428,770			2,255,843	43,684,613
2016		4,363			245	4,608	2016		65,057,433			3,240,455	68,297,888
2017		4,444			250	4,694	2017		81,290,033			3,702,924	84,992,957

Appendix C.8 Non-residential Duct Testing and Sealing Program 2012 - 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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			8			-	8	605	-	605	0.73	-	0.73
2013			508			-	508	1,411	-	1,411	1.42	-	1.42
2014			2,051			65	2,116	6,972	1,588	6,789	1.21	1.08	1.20
2015			2,514			292	2,805	6,716	10,921	7,070	1.52	1.92	1.55
2016			2,594			160	2,754	22,274	7,386	21,544	4.05	4.84	4.09
2017			695			54	749	51,056	31,216	49,902	8.58	10.77	8.71

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			8			-	8	7,057	-	7,057	0.73	-	0.73
2013			508			-	508	4,946	-	4,946	1.42	-	1.42
2014			2,051			65	2,116	16,747	9,932	16,515	1.21	1.08	1.20
2015			2,514			292	2,805	12,380	15,795	12,667	1.52	1.92	1.55
2016			2,594			160	2,754	41,176	16,671	39,974	4.05	4.84	4.09
2017			695			54	749	52,486	36,851	51,577	8.58	10.77	8.71

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							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	NC	System
2012			8			-	8	605	-	605	0.73	-	0.73
2013			516			-	516	1,580	-	1,580	1.40	-	1.40
2014			2,567			65	2,632	6,623	1,588	6,481	1.24	1.08	1.24
2015			5,080			357	5,437	11,128	10,641	11,102	1.36	1.68	1.38
2016			7,674			516	8,190	14,911	13,226	14,822	1.76	2.11	1.78
2017			8,370			570	8,940	18,292	14,812	18,107	1.88	2.28	1.90

Appendix C.9 Non-residential Energy Audit Program 2012 - 2017

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May 01 2018

Table 1		Capacity Savings Gross kW							Energy Savings / Participant Gross kWh/Participant for IRP			Capacity Savings / Participant Gross kW/Participant for IRP		
Month	Year	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	NC Cum. for IRP (New + Retired)							
November	2012	0		0				0	-		-	-		-
December	2012	10		10				10	2,953		2,953	10.05		10.05
January	2013	0		10				10	2,953		2,953	10.05		10.05
February	2013	0		10				10	2,953		2,953	10.05		10.05
March	2013	0		10				10	2,953		2,953	10.05		10.05
April	2013	0		10				10	2,953		2,953	10.05		10.05
May	2013	24		34				34	730		730	1.26		1.26
June	2013	4		38				38	657		657	1.12		1.12
July	2013	0		38				38	620		620	1.06		1.06
August	2013	0		38				38	578		578	0.98		0.98
September	2013	1		39				39	511		511	0.87		0.87
October	2013	486		525				525	1,439		1,439	3.95		3.95
November	2013	269		794				794	1,405		1,405	3.87		3.87
December	2013	172		966				966	1,247		1,247	3.19		3.19
January	2014	262		1,228	0		0	1,228	1,528	-	1,528	3.44	-	3.44
February	2014	234		1,462	0		0	1,462	1,650	-	1,650	3.41	-	3.41
March	2014	21		1,483	0		0	1,483	1,569	-	1,569	3.22	-	3.22
April	2014	407		1,890	0		0	1,890	1,914	-	1,914	3.57	-	3.57
May	2014	240		2,130	0		0	2,130	1,779	-	1,779	3.20	-	3.20
June	2014	118		2,248	0		0	2,248	1,797	-	1,797	3.18	-	3.18
July	2014	219		2,467	0		0	2,467	1,877	-	1,877	3.25	-	3.25
August	2014	144		2,611	0		0	2,611	1,740	-	1,740	2.99	-	2.99
September	2014	271		2,882	0		0	2,882	1,809	-	1,809	2.67	-	2.67
October	2014	68		2,950	8		8	2,957	1,710	2,769	1,712	2.41	3.80	2.41
November	2014	90		3,039	49		57	3,096	2,123	2,582	2,129	2.17	3.54	2.19
December	2014	31		3,070	0		57	3,127	2,121	2,582	2,126	2.16	3.55	2.18
January	2015	6		3,077	0		57	3,133	2,112	2,582	2,117	2.14	3.55	2.15
February	2015	1		3,078	0		57	3,135	2,104	2,582	2,109	2.12	3.55	2.13
March	2015	0		3,078	0		57	3,135	2,097	2,582	2,102	2.11	3.55	2.12
April	2015	0		3,078	0		57	3,135	2,094	2,582	2,099	2.10	3.55	2.12
May	2015	0		3,078	0		57	3,135	2,094	2,582	2,099	2.10	3.55	2.12
June	2015	0		3,078	1		57	3,136	2,094	2,449	2,098	2.10	3.38	2.12
July	2015	0		3,078	15		73	3,151	2,070	1,517	2,058	2.08	2.14	2.08
August	2015	0		3,079	14		87	3,165	2,056	639	1,972	2.06	0.92	2.00
September	2015	0		3,079	0		87	3,165	2,056	639	1,972	2.06	0.92	2.00
October	2015	0		3,079	0		87	3,165	2,056	639	1,972	2.06	0.92	2.00
November	2015	0		3,079	0		87	3,165	2,056	639	1,972	2.06	0.92	2.00
December	2015	0		3,079	0		87	3,165	2,055	639	1,971	2.06	0.92	2.00
January	2016	0		3,078	0		87	3,165	2,046	639	1,963	2.05	0.92	1.99
February	2016	0		3,078	0		87	3,165	2,045	639	1,962	2.05	0.92	1.99
March	2016	0		3,078	0		87	3,165	2,045	639	1,962	2.05	0.92	1.99
April	2016	0		3,078	0		87	3,165	2,045	639	1,962	2.05	0.92	1.99
May	2016	5		3,084	0		87	3,170	2,046	639	1,963	2.06	0.92	1.99
June	2016	278		3,361	0		87	3,448	2,173	639	2,083	2.23	0.92	2.15
July	2016	14		3,375	0		87	3,462	2,179	619	2,085	2.24	0.89	2.16
August	2016	59		3,434	0		87	3,521	2,192	579	2,089	2.26	0.84	2.17
September	2016	54		3,488	0		87	3,575	2,200	574	2,095	2.28	0.83	2.19
October	2016	59		3,548	17		104	3,651	2,187	673	2,089	2.27	0.96	2.19
November	2016	165		3,713	0		104	3,816	2,216	673	2,119	2.33	0.96	2.24
December	2016	131		3,843	13		117	3,961	2,245	765	2,152	2.38	1.09	2.30
January	2017	17		3,860	65		182	4,043	2,234	1,047	2,161	2.37	1.69	2.33
February	2017	6		3,866	61		243	4,109	2,235	1,297	2,176	2.37	2.23	2.36
March	2017	1		3,868	22		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
April	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
May	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
June	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
July	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
August	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
September	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
October	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
November	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37
December	2017	0		3,868	0		264	4,132	2,234	1,377	2,180	2.37	2.40	2.37

Appendix C.9 Non-residential Energy Audit Program 2012 - 2017

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

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

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

Appendix C.9 Non-residential Energy Audit Program 2012 - 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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	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		30	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	57,010	1.63	73.60	10.10

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		30	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

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							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	NC	System
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

Appendix C.10 Non-residential Lighting Systems and Controls Program 2014 - 2017

PROGRAM: Non-residential Lighting Systems and Controls
DSM Phase III Program
Type: Energy Efficiency
Program Measure Life: 9.0 years

Table 1			Participation								Table 1			Energy Savings							
Month	Year	Program Participants								Month	Year	Gross kWh									
		VA		NC				System				VA		NC				System			
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	System Cum for IRP E+G	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	2014	0		0					January	2014	0		0				0				
February	2014	0		0					February	2014	0		0				0				
March	2014	0		0					March	2014	0		0				0				
April	2014	0		0					April	2014	0		0				0				
May	2014	0		0					May	2014	0		0				0				
June	2014	0		0					June	2014	0		0				0				
July	2014	0		0					July	2014	0		0				0				
August	2014	0		0					August	2014	0		0				0				
September	2014	0		0					September	2014	0		0				0				
October	2014	14		14					October	2014	22,981		22,981				22,981				
November	2014	63		77					November	2014	167,666		190,647				190,647				
December	2014	41		118					December	2014	205,161		395,808				395,808				
January	2015	50		168	0		0	168	January	2015	80,379		476,187	0		0	476,187				
February	2015	48		216	0		0	216	February	2015	146,110		622,297	0		0	622,297				
March	2015	68		284	0		0	284	March	2015	325,407		947,704	0		0	947,704				
April	2015	71		355	1		1	356	April	2015	290,147		1,237,852	2,694		2,694	1,240,546				
May	2015	112		467	0		1	468	May	2015	482,242		1,720,093	0		2,694	1,722,788				
June	2015	110		577	1		2	579	June	2015	850,558		2,570,651	0		2,694	2,573,345				
July	2015	78		655	0		2	657	July	2015	227,073		2,797,724	0		2,694	2,800,419				
August	2015	127		782	0		2	784	August	2015	285,585		3,083,310	0		2,694	3,086,004				
September	2015	278		1,060	3		5	1,065	September	2015	415,700		3,499,010	9,884		12,578	3,511,588				
October	2015	162		1,222	5		10	1,232	October	2015	640,872		4,139,881	29,860		42,438	4,182,320				
November	2015	62		1,284	1		11	1,295	November	2015	178,091		4,317,972	1,200		43,638	4,361,611				
December	2015	75		1,359	2		13	1,372	December	2015	313,507		4,631,480	3,389		47,027	4,678,507				
January	2016	104		1,463	1		14	1,477	January	2016	361,959		4,993,439	998		48,025	5,041,463				
February	2016	53		1,516	1		15	1,531	February	2016	245,750		5,239,189	3,139		51,164	5,290,353				
March	2016	113		1,629	2		17	1,646	March	2016	413,500		5,652,689	75,876		127,040	5,779,729				
April	2016	71		1,700	1		18	1,718	April	2016	270,437		5,923,126	20,554		147,595	6,070,720				
May	2016	124		1,824	0		18	1,842	May	2016	388,209		6,311,334	0		147,595	6,458,929				
June	2016	160		1,984	10		28	2,012	June	2016	772,155		7,083,490	21,923		169,518	7,253,007				
July	2016	141		2,125	1		29	2,154	July	2016	598,731		7,682,221	7,076		176,594	7,858,815				
August	2016	139		2,264	16		45	2,309	August	2016	702,986		8,385,207	71,923		248,517	8,633,724				
September	2016	66		2,330	1		46	2,376	September	2016	391,390		8,776,597	4,747		253,263	9,029,860				
October	2016	74		2,404	5		51	2,455	October	2016	370,591		9,147,187	27,580		280,843	9,428,031				
November	2016	92		2,496	2		53	2,549	November	2016	673,164		9,820,351	12,250		293,093	10,113,445				
December	2016	66		2,562	3		56	2,618	December	2016	300,577		10,121,228	31,728		324,821	10,446,049				
January	2017	81		2,643	1		57	2,700	January	2017	568,424		10,689,652	6,189		331,010	11,020,662				
February	2017	78		2,721	1		58	2,779	February	2017	390,893		11,080,545	4,104		335,113	11,415,658				
March	2017	86		2,807	2		60	2,867	March	2017	618,426		11,698,970	13,538		348,651	12,047,621				
April	2017	81		2,888	5		65	2,953	April	2017	488,200		12,187,171	23,563		372,214	12,559,385				
May	2017	87		2,975	6		71	3,046	May	2017	434,562		12,621,733	42,857		415,071	13,036,804				
June	2017	78		3,053	0		71	3,124	June	2017	321,486		12,943,219	0		415,071	13,358,290				
July	2017	66		3,119	0		71	3,190	July	2017	260,316		13,203,535	0		415,071	13,618,606				
August	2017	77		3,196	1		72	3,268	August	2017	541,903		13,745,438	10,799		425,870	14,171,308				
September	2017	64		3,260	3		75	3,335	September	2017	582,455		14,327,893	40,047		465,916	14,793,809				
October	2017	78		3,338	3		78	3,416	October	2017	796,336		15,124,229	2,105		468,021	15,592,230				
November	2017	57		3,395	1		79	3,474	November	2017	640,836		15,765,066	1,582		469,603	16,234,669				
December	2017	35		3,430	0		79	3,509	December	2017	274,880		16,039,946	61		469,664	16,509,610				

Appendix C.10 Non-residential Lighting Systems and Controls Program 2014 - 2017

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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	2014	0		0				0	-	-	-	-	-	-
February	2014	0		0				0	-	-	-	-	-	-
March	2014	0		0				0	-	-	-	-	-	-
April	2014	0		0				0	-	-	-	-	-	-
May	2014	0		0				0	-	-	-	-	-	-
June	2014	0		0				0	-	-	-	-	-	-
July	2014	0		0				0	-	-	-	-	-	-
August	2014	0		0				0	-	-	-	-	-	-
September	2014	0		0				0	-	-	-	-	-	-
October	2014	59		59				59	1,641	-	1,641	4.21	-	4.21
November	2014	421		480				480	2,476	-	2,476	6.24	-	6.24
December	2014	518		998				998	3,354	-	3,354	8.46	-	8.46
January	2015	196		1,194	0		0	1,194	2,834	-	2,834	7.11	-	7.11
February	2015	380		1,574	0		0	1,574	2,881	-	2,881	7.29	-	7.29
March	2015	938		2,512	0		0	2,512	3,337	-	3,337	8.85	-	8.85
April	2015	712		3,225	7		7	3,232	3,487	2,694	3,485	9.08	7.13	9.08
May	2015	1,201		4,426	0		7	4,433	3,683	2,694	3,681	9.48	7.13	9.47
June	2015	2,167		6,592	0		7	6,600	4,455	1,347	4,444	11.43	3.56	11.40
July	2015	563		7,156	0		7	7,163	4,271	1,347	4,262	10.92	3.56	10.90
August	2015	659		7,815	0		7	7,822	3,943	1,347	3,936	9.99	3.56	9.98
September	2015	961		8,776	22		29	8,806	3,301	2,516	3,297	8.28	5.82	8.27
October	2015	1,591		10,367	65		94	10,461	3,388	4,244	3,395	8.48	9.41	8.49
November	2015	420		10,787	3		97	10,884	3,363	3,967	3,368	8.40	8.80	8.40
December	2015	885		11,673	8		105	11,777	3,408	3,617	3,410	8.59	8.05	8.58
January	2016	1,059		12,732	3		107	12,839	3,413	3,430	3,413	8.70	7.67	8.69
February	2016	768		13,500	9		116	13,616	3,456	3,411	3,455	8.90	7.76	8.89
March	2016	1,148		14,648	224		340	14,988	3,470	7,473	3,511	8.99	20.02	9.11
April	2016	751		15,398	61		401	15,800	3,484	8,200	3,534	9.06	22.29	9.20
May	2016	1,083		16,481	0		401	16,882	3,460	8,200	3,506	9.04	22.29	9.17
June	2016	2,125		18,606	51		453	19,059	3,570	6,054	3,605	9.38	16.16	9.47
July	2016	1,745		20,351	20		473	20,824	3,615	6,089	3,648	9.58	16.30	9.67
August	2016	1,889		22,240	161		633	22,873	3,704	5,523	3,739	9.82	14.08	9.91
September	2016	1,122		23,362	13		646	24,008	3,767	5,506	3,800	10.03	14.05	10.10
October	2016	992		24,353	82		728	25,081	3,805	5,507	3,840	10.13	14.28	10.22
November	2016	1,870		26,223	40		768	26,991	3,914	5,530	3,968	10.51	14.50	10.59
December	2016	830		27,053	79		848	27,900	3,951	5,800	3,990	10.56	15.14	10.66
January	2017	1,113		28,165	0		848	29,013	4,045	5,807	4,082	10.66	14.87	10.75
February	2017	805		28,971	0		848	29,818	4,072	5,778	4,108	10.65	14.62	10.73
March	2017	1,189		30,159	36		884	31,043	4,168	5,811	4,202	10.74	14.73	10.83
April	2017	948		31,108	55		939	32,047	4,220	5,726	4,253	10.77	14.45	10.85
May	2017	873		31,981	116		1,055	33,036	4,243	5,846	4,280	10.75	14.86	10.85
June	2017	505		32,486	0		1,055	33,541	4,240	5,846	4,276	10.64	14.86	10.74
July	2017	461		32,947	0		1,055	34,003	4,233	5,846	4,269	10.56	14.86	10.66
August	2017	964		33,911	22		1,077	34,988	4,301	5,915	4,336	10.61	14.96	10.71
September	2017	1,225		35,136	94		1,171	36,307	4,395	6,212	4,436	10.78	15.62	10.89
October	2017	1,649		36,785	7		1,178	37,963	4,531	6,000	4,564	11.02	15.11	11.11
November	2017	1,537		38,322	4		1,182	39,505	4,644	5,944	4,673	11.29	14.97	11.37
December	2017	689		39,011	0		1,182	40,193	4,676	5,945	4,705	11.37	14.97	11.45

Appendix C.10 Non-residential Lighting Systems and Controls Program 2014 - 2017

Table 2. EM&V Data Incremental by Vintage Year						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
2014		118		-	118	2014		609,435		-	609,435
2015		1,241		13	1,254	2015		25,294,469		159,154	#####
2016		1,203		43	1,246	2016		33,558,302		1,703,743	#####
2017		868		23	891	2017		37,972,659		1,033,422	#####

Table 3. EM&V Data Annualized by Vintage Year						Table 3. EM&V Data Annualized by Vintage Year					
Program Participants						Gross Annualized Energy (kWh)					
		VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP
2014		118		-	118	2014		4,749,693		-	4,749,693
2015		1,241		13	1,254	2015		50,828,062		564,326	#####
2016		1,203		43	1,246	2016		65,876,985		3,333,527	69,210,512
2017		868		23	891	2017		71,024,607		1,738,121	72,762,728

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)						Table 5. EM&V Data Accumulated through Vintage Year (for IRP)					
Program Participants						Gross Energy (kWh)					
		VA IRP		NC IRP	System IRP			VA IRP		NC IRP	System IRP
2014		118		-	118	2014		609,435		-	609,435
2015		1,359		13	1,372	2015		30,044,162		159,154	#####
2016		2,562		56	2,618	2016		89,136,057		2,268,069	91,404,126
2017		3,430		79	3,509	2017		159,427,398		4,931,275	164,358,674

Appendix C.10 Non-residential Lighting Systems and Controls Program 2014 - 2017

Table 2. EM&V Data Incremental by Vintage Year							Incremental Energy Savings/Participant			Incremental 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
2014			998		-	998	5,165	-	5,165	8.46	-	8.46
2015			10,674		105	10,779	20,382	12,243	20,298	8.60	8.05	8.60
2016			15,380		743	16,123	27,896	39,622	28,300	12.78	17.28	12.94
2017			11,958		335	12,293	43,747	44,931	43,778	13.78	14.55	13.80

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
2014			998		-	998	40,252	-	40,252	8.46	-	8.46
2015			10,674		105	10,779	40,957	43,410	40,983	8.60	8.05	8.60
2016			15,380		743	16,123	54,761	77,524	55,546	12.78	17.28	12.94
2017			11,958		335	12,293	81,826	75,570	81,664	13.78	14.55	13.80

Table 5. EM&V Data Accumulated through Vintage Year (for IRP)							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	NC	System
2014			998		-	998	5,165	-	5,165	8.46	-	8.46
2015			11,673		105	11,777	22,108	12,243	22,014	8.59	8.05	8.58
2016			27,053		848	27,900	34,792	40,501	34,914	10.56	15.14	10.66
2017			39,011		1,182	40,193	46,480	62,421	46,839	11.37	14.97	11.45

Appendix C.11 Non-residential Heating and Cooling Efficiency Program 2014 - 2017

PROGRAM: Non-Residential Heating and Cooling Efficiency
 DSM Phase III Program
 Type: Energy Efficiency
 Program Measure Life: 15.0 years

Table 1		Participation								Table 1		Energy Savings						
Month	Year	Program Participants							Month	Year	Gross kWh							
		VA		NC			System				VA		NC			System		
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	System Cum for IRP E+G			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	2014	0		0					January	2014	0		0				0	
February	2014	0		0					February	2014	0		0				0	
March	2014	0		0					March	2014	0		0				0	
April	2014	0		0					April	2014	0		0				0	
May	2014	0		0					May	2014	0		0				0	
June	2014	0		0					June	2014	0		0				0	
July	2014	0		0					July	2014	0		0				0	
August	2014	0		0					August	2014	0		0				0	
September	2014	0		0					September	2014	0		0				0	
October	2014	0		0					October	2014	0		0				0	
November	2014	1		1					November	2014	71,924		71,924				71,924	
December	2014	5		6					December	2014	49,492		121,416				121,416	
January	2015	0		0				0	January	2015	0		0			0	0	
February	2015	1		1				1	February	2015	2,702		124,118		0		124,118	
March	2015	0		0				0	March	2015	0		124,118		0		124,118	
April	2015	16		23	2		2	25	April	2015	246,386		370,503	3,163		3,163	373,666	
May	2015	34		57	1		3	60	May	2015	118,646		489,149	4,433		7,595	496,745	
June	2015	16		73	0		3	76	June	2015	34,651		523,800	0		7,595	531,396	
July	2015	26		99	0		3	102	July	2015	167,760		691,560	0		7,595	699,156	
August	2015	2		101	0		3	104	August	2015	1,139		692,700	0		7,595	700,295	
September	2015	7		108	0		3	111	September	2015	190,538		883,237	0		7,595	890,833	
October	2015	5		113	0		3	116	October	2015	70,208		953,445	0		7,595	961,041	
November	2015	2		115	0		3	118	November	2015	52,583		1,006,028	0		7,595	1,013,624	
December	2015	5		120	0		3	123	December	2015	42,874		1,048,902	0		7,595	1,056,498	
January	2016	7		127	0		3	130	January	2016	29,693		1,078,595	0		7,595	1,086,191	
February	2016	9		136	0		3	139	February	2016	28,448		1,107,044	0		7,595	1,114,639	
March	2016	4		140	0		3	143	March	2016	24,484		1,131,528	0		7,595	1,139,123	
April	2016	6		146	1		4	150	April	2016	202,811		1,334,339	915		8,510	1,342,849	
May	2016	6		152	1		5	157	May	2016	76,025		1,410,364	5,128		13,638	1,424,003	
June	2016	12		164	2		7	171	June	2016	80,435		1,490,799	17,446		31,084	1,521,883	
July	2016	7		171	0		7	178	July	2016	36,771		1,527,570	0		31,084	1,558,654	
August	2016	12		183	1		8	191	August	2016	212,255		1,739,825	534		31,618	1,771,443	
September	2016	7		190	0		8	198	September	2016	255,469		1,995,294	0		31,618	2,026,912	
October	2016	6		196	0		8	204	October	2016	59,971		2,055,265	0		31,618	2,086,882	
November	2016	6		202	1		9	211	November	2016	60,419		2,115,683	103		31,720	2,147,404	
December	2016	7		209	0		9	218	December	2016	70,495		2,186,178	0		31,720	2,217,898	
January	2017	9		218	0		9	227	January	2017	10,308		2,196,486	0		31,720	2,228,206	
February	2017	9		227	0		9	236	February	2017	47,495		2,243,981	0		31,720	2,275,701	
March	2017	1		228	0		9	237	March	2017	7,197		2,251,178	0		31,720	2,282,898	
April	2017	2		230	0		9	239	April	2017	17,141		2,268,318	0		31,720	2,300,039	
May	2017	13		243	1		10	253	May	2017	198,848		2,467,166	6,169		37,889	2,505,056	
June	2017	23		266	1		11	277	June	2017	56,145		2,523,311	35		37,924	2,561,235	
July	2017	12		278	12		23	301	July	2017	83,386		2,606,697	212,255		250,180	2,856,876	
August	2017	10		288	0		23	311	August	2017	12,913		2,619,610	0		250,180	2,869,789	
September	2017	8		296	1		24	320	September	2017	84,001		2,703,610	710		250,890	2,954,500	
October	2017	5		301	0		24	325	October	2017	34,869		2,738,479	0		250,890	2,989,369	
November	2017	10		311	0		24	335	November	2017	44,982		2,783,461	0		250,890	3,034,351	
December	2017	1		312	0		24	339	December	2017	29,957		2,813,418	0		250,890	3,064,307	