



Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) Work Form

Version 1.0 (2017)

Generic LRAMVA Work Forms

File Name	Description
1. LRAMVA Summary	Table 1 provides a summary of the LRAMVA balances and carrying charges associated with the LRAMVA claim. The balances are populated from entries into other tabs throughout this work form.
2. CDM Allocation	Tables 2, 3 and 4 include the CDM savings and allocation by rate class that were included in the load forecast.
3. Distribution Rates	Tables 5 and 6 include a historical account of distribution rates that were used to calculate lost revenues.
4. 2011-14 LRAM	Tables 7, 8, 9 and 10 includes 2011-2014 LRAMVA work forms. These should only be used if the LDC has not applied for approval of these amounts.
5. 2015 LRAM	Table 11-a includes a template workform for calculating 2015 lost revenues based on legacy and new programs.
6. Persistence Rates	Tables 12 and 13 includes the 2011-2014 persistence factors and 2015-2020 persistence factors.
7. Carrying Charges	Tables 19 and 20 includes the carrying charges related to the LRAMVA claim that is being made.

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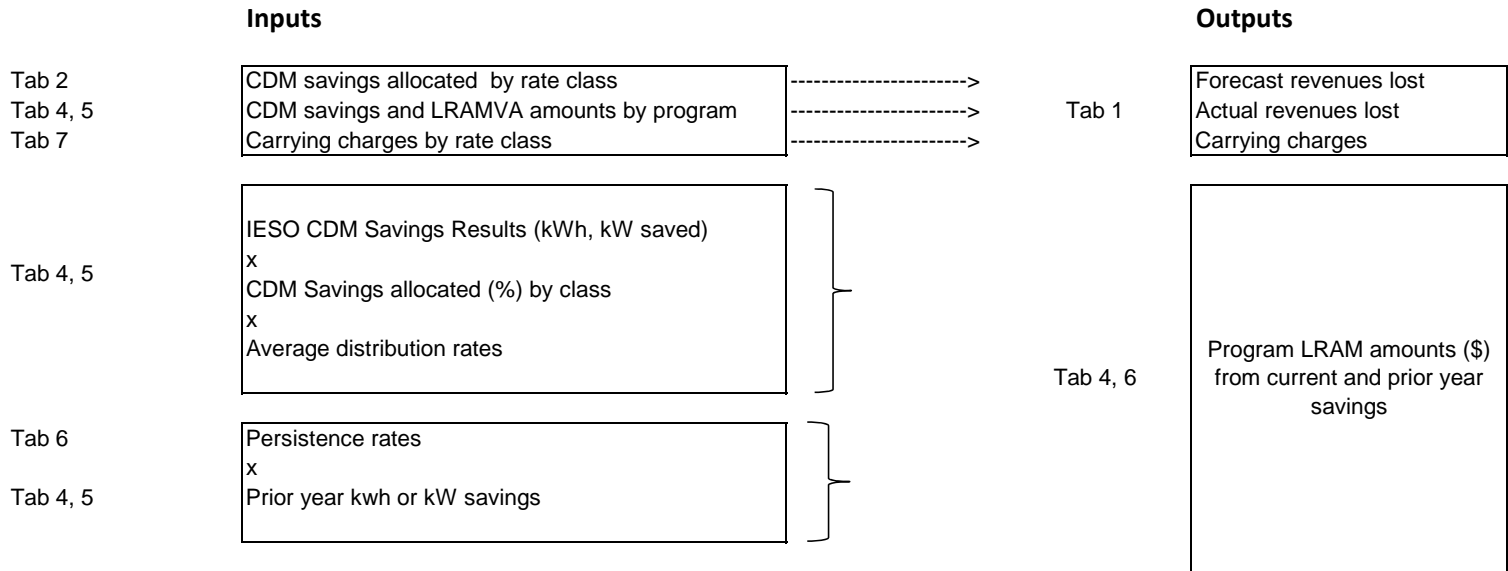
While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the



LRAMVA Work Form: Input-Output Schematic

General Note on the LRAMVA Model

The LRAMVA model consolidates information that LDCs are already required to file with the OEB. The model has been created to provide LDCs with a consistent format to display CDM impacts, the CDM component of the load forecast and ultimately, any variance between actual CDM savings and the CDM component of the load forecast. The majority of the information required in the LRAMVA work form will be provided to LDCs from the IESO as part of the Final CDM Results each year.





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LRAMVA Work Form: Summary Table

LRAMVA Summary

This is a summary sheet that contains the final LRAMVA balances with links from **Tabs 2, 4, 5 and 7.**

File Number	EB-2016-0095	
Exhibit	n/a	\$ 26,935.00
Schedule	n/a	2011 and 2012
Tab	n/a	EB-2013-0155
Page	Manager's summary - Page 8	
Legend	User Inputs (Green)	\$61,161.21
	Auto Populated Cells	1

Table 1. Annual and Total LRAMVA by Rate Class

Description	Residential	General Service <50 kW	Street Lighting	Unmetered Scattered Load	General Service 50 - 4,999 kW	Total
2011 Forecast	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2011 Actuals	\$2,610.53	\$6,780.46	\$0.00	\$0.00	\$330.25	\$9,721.24
Amount Cleared						\$0.00
2012 Forecast	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2012 Actuals	\$4,270.23	\$13,710.21	\$0.00	\$0.00	\$1,885.76	\$19,866.20
Amount Cleared						\$0.00
2013 Forecast	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2013 Actuals	\$5,820.25	\$18,068.69	\$0.00	\$0.00	\$4,618.20	\$28,507.13
Amount Cleared						\$0.00
2014 Forecast	(\$13,179.54)	(\$6,886.58)	(\$1,337.03)	(\$34.72)	(\$6,955.09)	(\$28,392.96)
2014 Actuals	\$9,257.32	\$21,298.75	\$0.00	\$0.00	\$5,706.83	\$36,262.89
Amount Cleared	(\$6,716.00)	(\$19,829.00)	\$0.00	\$0.00	(\$390.00)	(\$26,935.00)
2015 Forecast	(\$13,214.13)	(\$6,430.01)	(\$1,514.77)	(\$22.33)	(\$6,534.69)	(\$27,715.93)
2015 Actuals	\$12,806.55	\$23,213.58	\$0.00	\$0.00	\$12,107.25	\$48,127.38
Amount Cleared						\$0.00
Carrying Charges to Dec 2015	\$226.89	\$1,271.33	(\$43.22)	(\$0.76)	\$266.01	\$1,720.25
Total LRAMVA Balance to Dec 2015	\$1,882.11	\$51,197.42	(\$2,895.02)	(\$57.82)	\$11,034.51	\$61,161.21
Class Proportions	3.1%	83.7%	-4.7%	-0.1%	18.0%	100.0%
Interest Jan 1, 2016 to Dec 31, 2016	\$20	\$547	(\$31)	(\$1)	\$118	\$654
Interest Jan 1, 2016 to Apr 30 2017	\$7	\$182	(\$10)	(\$0)	\$39	\$218
Total Claim	\$1,909	\$51,927	(\$2,936)	(\$59)	\$11,192	\$62,033
						Per IRM Model Sheet 3, Continuity Schedule \$62,033

LRAMVA Work Form: CDM Allocation

CDM Savings Target Allocation by Rate Class

Instruction Please update the template as needed or replace this spreadsheet with an existing template that estimated savings in CDM forecast. CDM savings by rate class for historical years based on past year's approved cost of service application, or relevant information from **Appendix 24**. Alternatively, LDCs may want to use this spreadsheet to their CDM savings allocation (e.g. appended as another tab in this workbook) to fill in **Tables 2, 3 and 4** below.

Legend
 (Light Blue) (Green) Auto Populated Cells (White)

Table 2. Amount used for CDM Threshold for LRAMVA

Forecast Year	MWh	kW
2011	0	0
2012	0	0
2013	0	0
2014	2,875,184	18,133
2015	2,875,184	(3,133)
2016	2,875,184	18,133
2017	2,875,184	18,133

Table 3. Allocation of CDM Savings (Energy and Demand Billed) by Rate Class in Approved Load Forecast

Forecast Year	Residential	General Service <50 kW	Street Lighting	Unmetered	General Service	Total
	kWh	kWh	kW	Scattered Load	50 - 4,999 kW	
2011	0	0	0	0	0	0
2012	0	0	0	0	0	0
2013	0	0	0	0	0	0
2014	1,037,759	570,711	52	3,681	3,081	182,664,024
2015	1,037,759	570,711	52	3,681	3,081	182,664,024
2016	1,037,759	570,711	52	3,681	3,081	182,664,024
2017	1,037,759	570,711	52	3,681	3,081	182,664,024

Tables 3A. CDM Adjustment as Approved in Cost of Service Application

2011	Residential	General Service <50 kW	Street Lighting	Unmetered Loads	General Service 50 - 4,999 kW	Total
	kWh	kWh	kW	kWh	kWh	
Weather Normal Billed kWh (2009)	66,320,829	34,349,093	1,086,069	302,169	80,605,864	182,664,024
% of Billed	36.31%	18.80%	0.09%	0.17%	44.13%	100%
CDM Allocation	0	0	0	0	0	0
Adjusted Billed kWh with CDM Applied	66,320,829	34,349,093	1,086,069	302,169	80,605,864	182,664,024
Weather Normal Billed kW (Insert Year)	0	0	2,900	207,437	210,337	0
CDM kW Reduction	0	0	0	0	0	0
Adjusted Billed kWh with CDM Applied	66,320,829	34,349,093	2,900	207,437	210,337	182,664,024
kWh to kW Ratio			0.27%	0.26%	0.26%	
			2,900	CDM kW	207,437	

2012	Residential	General Service <50 kW	Street Lighting	Unmetered Loads	General Service 50 - 4,999 kW	Total
	kWh	kWh	kW	kWh	kWh	
Weather Normal Billed kWh (2009)	66,320,829	34,349,093	1,086,069	302,169	80,605,864	182,664,024
% of Billed	36.31%	18.80%	0.09%	0.17%	44.13%	100%
CDM Allocation	0	0	0	0	0	0
Adjusted Billed kWh with CDM Applied	66,320,829	34,349,093	1,086,069	302,169	80,605,864	182,664,024
Weather Normal Billed kW (Insert Year)	0	0	2,900	207,437	210,337	0
CDM kW Reduction	0	0	0	0	0	0
Adjusted Billed kWh with CDM Applied	66,320,829	34,349,093	2,900	207,437	210,337	182,664,024
kWh to kW Ratio			0.27%	0.26%	0.26%	
			2,900	CDM kW	207,437	

2013	Residential	General Service <50 kW	Street Lighting	Unmetered Loads	General Service 50 - 4,999 kW	Total
	kWh	kWh	kW	kWh	kWh	
Weather Normal Billed kWh (2009)	66,320,829	34,349,093	1,086,069	302,169	80,605,864	182,664,024
% of Billed	36.31%	18.80%	0.09%	0.17%	44.13%	100%
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Weather Normal Billed kW (Insert Year)	0	0	2,900	207,437	210,337	0
CDM kW Reduction	0	0	0	0	0	0
Adjusted Billed kWh with CDM Applied	66,320,829	34,349,093	2,900	207,437	210,337	182,664,024
kWh to kW Ratio			0.27%	0.26%	0.26%	
			2,900	CDM kW	207,437	

2014	Residential	General Service <50 kW	Street Lighting	Unmetered Loads	General Service 50 - 4,999 kW	Total
	kWh	kWh	kW	kWh	kWh	
Weather Normal Billed kWh (2014)	67,763,410	37,260,698	1,248,464	240,322	81,473,856	187,876,750
% of Billed	36.04%	19.82%	0.66%	0.13%	43.34%	100%
CDM Allocation	(1,037,759)	(670,711)	(19,152)	(3,681)	(1,247,911)	(2,875,184)
Adjusted Billed kWh with CDM Applied	66,725,651	36,689,987	1,229,312	236,641	80,225,945	185,000,566
Weather Normal Billed kW (2014)	0	0	3,377	201,178	204,555	0
CDM kW Reduction	(52)	(52)	3,325	189,097	201,422	(5,133)
Adjusted Billed kWh with CDM Applied	66,725,651	36,689,987	3,377	201,178	204,555	185,000,566
kWh to kW Ratio			0.27%	0.25%	0.25%	
			3,377	CDM kW	201,178	

2015	Residential	General Service <50 kW	Street Lighting	Unmetered Loads	General Service 50 - 4,999 kW	Total
	kWh	kWh	kW	kWh	kWh	
Weather Normal Billed kWh (2014)	67,763,410	37,260,698	1,248,464	240,322	81,473,856	187,876,750
% of Billed	36.04%	19.82%	0.66%	0.13%	43.34%	100%
CDM Allocation	(1,037,759)	(670,711)	(19,152)	(3,681)	(1,247,911)	(2,875,184)
Adjusted Billed kWh with CDM Applied	66,725,651	36,689,987	1,229,312	236,641	80,225,945	185,000,566
Weather Normal Billed kW (2014)	0	0	3,377	201,178	204,555	0
CDM kW Reduction	(52)	(52)	3,325	189,097	201,422	(5,133)
Adjusted Billed kWh with CDM Applied	66,725,651	36,689,987	3,377	201,178	204,555	185,000,566
kWh to kW Ratio			0.27%	0.25%	0.25%	
			3,377	CDM kW	201,178	

2016	Residential	General Service <50 kW	Street Lighting	Unmetered Loads	General Service 50 - 4,999 kW	Total
	kWh	kWh	kW	kWh	kWh	
Weather Normal Billed kWh (2014)	67,763,410	37,260,698	1,248,464	240,322	81,473,856	187,876,750
% of Billed	36.04%	19.82%	0.66%	0.13%	43.34%	100%
CDM Allocation	(1,037,759)	(670,711)	(19,152)	(3,681)	(1,247,911)	(2,875,184)
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CDM kW Reduction	(52)	(52)	3,325	189,097	201,422	(5,133)
Adjusted Billed kWh with CDM Applied	66,725,651	36,689,987	3,377	201,178	204,555	185,000,566
kWh to kW Ratio			0.27%	0.25%	0.25%	
			3,377	CDM kW	201,178	

2017	Residential	General Service <50 kW	Street Lighting	Unmetered Loads	General Service 50 - 4,999 kW	Total
	kWh	kWh	kW	kWh	kWh	
Weather Normal Billed kWh (2014)	67,763,410	37,260,698	1,248,464	240,322	81,473,856	187,876,750
% of Billed	36.04%	19.82%	0.66%	0.13%	43.34%	100%
CDM Allocation	(1,037,759)	(670,711)	(19,152)	(3,681)	(1,247,911)	(2,875,184)
Adjusted Billed kWh with CDM Applied	66,725,651	36,689,987	1,229,312	236,641	80,225,945	185,000,566
Weather Normal Billed kW (2014)	0	0	3,377	201,178	204,555	0
CDM kW Reduction	(52)	(52)	3,325	189,097	201,422	(5,133)
Adjusted Billed kWh with CDM Applied	66,725,651	36,689,987	3,377	201,178	204,555	185,000,566
kWh to kW Ratio			0.27%	0.25%	0.25%	
			3,377	CDM kW	201,178	

Table 4. Forecast Lost Revenue Amounts by Rate Class

Forecast Year	Residential	General Service <50 kW	Street Lighting	Unmetered	General Service	Total
	\$	\$	\$	Scattered Load	50 - 4,999 kW	
2011	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$11,160	\$6,867	\$1,307	\$28	\$6,955	\$28,307
2015	\$13,214	\$8,430	\$1,615	\$22	\$8,535	\$33,776
2016	\$11,209	\$6,925	\$1,540	\$22	\$8,491	\$28,277
2017	\$11,868	\$7,226	\$1,615	\$22	\$8,227	\$30,094



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LRAMVA Work Form: Distribution Rates

Distribution Rates

Instruction

Please update **Table 5** with the approved distribution rates for the utility's respective rate classes. The applicable rates to estimate lost revenues will autopopulate in **Table 6** and be used in the LRAM Work Sheets (**Tab 4 and Tab 5**) for the applicable year in which LRAM is claimed.

LDCs to update the rate classes as appropriate below depending on the utility's customer mix.

Legend

User Inputs (Green)

Auto Populated Cells (White)

Table 5. Distribution Volumetric Rate by Billing Period

Decision & Orders for Approved Volumetric Rates:	EB-2009-0237	EB-2010-0101	EB-2011-0186 EB-2012-0026	EB-2012-0063	EB-2013-0155	EB-2014-0097	EB-2015-0091	EB-2016-0095	
Rate Class	Billing Unit	May 1, 2010 to Apr 30, 2011	May 1, 2011 to Sept 30, 2012	Oct 1, 2012 to Apr 30, 2013	May 1, 2013 to Apr 30, 2014	May 1, 2014 to Apr 30, 2015	May 1, 2015 to Apr 30, 2016	May 1, 2016 to Apr 30, 2017	May 1, 2017 to Apr 30, 2018
<i>Rate Year</i>		2010	2011	2012	2013	2014	2015	2016	2017
<i>Pro-ratio of Rates (months) - Period 1</i>		4	4	4	4	4	4	4	4
<i>Pro-ratio of Rates (months) - Period 2</i>		8	8	8	8	8	8	8	8
Residential	kWh	\$ 0.0127	\$ 0.0127	\$ 0.0128	\$ 0.0129	\$ 0.0126	\$ 0.0128	\$ 0.0098	\$ 0.0066
General Service <50 kW	kWh	\$ 0.0136	\$ 0.0136	\$ 0.0137	\$ 0.0138	\$ 0.0112	\$ 0.0113	\$ 0.0115	\$ 0.0001
Street Lighting	kW	\$ 15.2803	\$ 19.2173	\$ 19.3864	\$ 19.4795	\$ 29.0338	\$ 29.4112	\$ 29.9406	\$ 0.0001
Unmetered Scattered Load	kWh	\$ 0.0161	\$ 0.0161	\$ 0.0162	\$ 0.0163	\$ 0.0060	\$ 0.0061	\$ 0.0062	-\$ 0.0002
General Service 50 - 4,999 kW	kW	\$ 2.6148	\$ 2.5318	\$ 2.5541	\$ 2.5664	\$ 2.1025	\$ 2.1298	\$ 2.1681	\$ 0.0001

Table 6. Summary Table: Average Distribution Volumetric Rates by Year for LRAM Calculation

Rate Class	Billing Unit	2011	2012	2013	2014	2015	2016	2017
Residential	kWh	\$ 0.0127	\$ 0.0128	\$ 0.0129	\$ 0.0127	\$ 0.0127	\$ 0.0108	\$ 0.0077
General Service <50 kW	kWh	\$ 0.0136	\$ 0.0137	\$ 0.0138	\$ 0.0121	\$ 0.0113	\$ 0.0114	\$ 0.0039
General Service 50 - 999 kW	kW	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Service 1,000 - 4,999 kW	kW	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sentinel Lighting	kW	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Street Lighting	kW	\$ 17.9050	\$ 19.3300	\$ 19.4485	\$ 25.8490	\$ 29.2854	\$ 29.7641	\$ 9.9803
Unmetered Scattered Load	kWh	\$ 0.0161	\$ 0.0162	\$ 0.0163	\$ 0.0094	\$ 0.0061	\$ 0.0062	\$ 0.0019
General Service 50 - 4,999 kW	kW	\$ 2.5595	\$ 2.5467	\$ 2.5623	\$ 2.2571	\$ 2.1207	\$ 2.1553	\$ 0.7228

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LRAMVA Work Form:
2011-2014 Lost Revenues Work Form

2011-2014 Lost Revenues Work Form

Instruction
The following LRAM work forms apply to LDCs that need to recover lost revenues from the 2011-2014 period. This workbook contains links from **Tab 3** (Distribution Rates) and **Tab 6** (Persistence Rates). Demand Response (DR3) Savings should generally not be included with the LRAMVA calculation, unless supported by empirical evidence. Please see revised LRAM policy related to peak demand savings, issued by the OEB in EB-2016-0182.

LDC to adjust the rate allocations by class (columns h to n). Please insert IESO verified savings for applicable programs (columns f to g). Adjustments will apply to the year that LRAM is claimed.

Legend
 User Inputs (Green)
 Auto Populated Cells (White)

Table 7. 2011 Lost Revenues Work Form

#	Initiative	Results Status	Months of Demand Savings	Net Incremental Peak Demand Savings (kW)	Net Incremental Energy Savings (kWh)	Rate Allocation for LRAMVA			
				2011 kW Saved	2011 kWh Saved	Residential	General Service <50 kW	General Service 50 - 4,999 kW	Total
Consumer Program									
1	Appliance Retirement	Verified		7	46,772	100%			100%
2	Appliance Exchange	Verified		0	289	100%			100%
3	HVAC Incentives	Verified		49	86,998	100%			100%
4	Conservation Instant Coupon Booklet	Verified		2	32,225	100%			100%
5	Bi-Annual Retailer Event	Verified		3	48,602	100%			100%
	Adjustments to 2011 results (if any)	True-up		-6	-7,333	100%			100%
Business Program									
9	Retrofit	Verified	12	15	78,074		60%	40%	100%
10	Direct Install Lighting	Verified	12	171	451,696		100%		100%
12	New Construction	Verified	12	5	22,211			100%	100%
	Adjustments to 2011 results (if any)	True-up		-1	23		100%		100%
Pre-2011 Programs completed in 2011									
22	Electricity Retrofit Incentive Program	Verified		30	165,618			100%	100%
23	High Performance New Construction	Verified		18	92,390			100%	100%
	Adjustments to 2011 results (if any)	True-up		4	21,537			100%	100%
	Total kWh				1,037,102	205,554	498,563	332,985	1,037,102
	Total kWh (excludes DR)				1,037,102	205,554	498,563	332,985	1,037,102
	Total GS > 50 kW							129	129
	Total GS > 50 kW (excludes Building Commissioning)							129	129
	Distribution Rate in 2011					\$0.0127	\$0.0136	\$2.5595	
	Lost Revenue in 2011					\$2,611	\$6,780	\$330	\$9,721
	2011 Savings Persisting in 2012					205,554	498,563	129	
	2011 Savings Persisting in 2013					200,530	486,379	126	
	2011 Savings Persisting in 2014					166,573	404,017	99	
	2011 Savings Persisting in 2015					162,122	393,221	98	

Checksum DR 0

Table 8. 2012 Lost Revenues Work Form

#	Initiative	Results Status	Months of Demand Savings	Net Incremental Peak Demand Savings (kW)	Net Incremental Energy Savings (kWh)	Rate Allocation for LRAMVA			
				2012 kW Saved	2012 kWh Saved	Residential	General Service <50 kW	General Service 50 - 4,999 kW	Total
Consumer Program									
1	Appliance Retirement	Verified		5	27,029	100%			100%
2	Appliance Exchange	Verified		0	683	100%			100%
3	HVAC Incentives	Verified		32	53,257	100%			100%
4	Conservation Instant Coupon Booklet	Verified		0	2,217	100%			100%
5	Bi-Annual Retailer Event	Verified		2	42,470	100%			100%
	Adjustments to 2012 results (if any)	True-up		1	1,789	100%			100%
Business Program									
10	Retrofit	Verified	12	76	411,293		33%	67%	100%
11	Direct Install Lighting	Verified	12	72	287,393		100%		100%
13	New Construction	Verified	12	4	13,123		100%		100%
14	Energy Audit	Verified	12	5	25,176		100%		100%
	Adjustments to 2012 results (if any)	True-up		12	56,166		40%	60%	100%
Home Assistance Program									
23	Home Assistance Program	Verified		0	1,484	100%			100%
Pre-2011 Programs completed in 2011									
25	High Performance New Construction	Verified		0	174			100%	100%
	Adjustments to 2012 results (if any)	True-up		60	32,506		60%	40%	100%
	Total kWh				954,759	128,929	504,623	321,208	954,759
	Total kWh (excludes DR)				954,759	128,929	504,623	321,208	954,759
	Total GS > 50 kW							611	611
	Total GS > 50 kW (excludes Building Commissioning)							611	611
	Distribution Rate in 2012					\$0.0128	\$0.0137	\$2.5467	
	Lost Revenue in 2012 from 2011 programs					\$2,624	\$6,814	\$329	\$9,767
	Lost Revenue in 2012 from 2012 programs					\$1,646	\$6,897	\$1,557	\$10,100
	Total Lost Revenue in 2012					\$4,270	\$13,710	\$1,886	\$19,866
	2012 Savings Persisting in 2013					128,929	504,623	611	
	2012 Savings Persisting in 2014					127,609	499,456	605	
	2012 Savings Persisting in 2015					111,411	436,058	527	

611.44957
0
0
0

Checksum DR 0

kW persistence 1.00

Table 9. 2013 Lost Revenues Work Form

#	Initiative	Results Status	Months of Demand Savings	Net Incremental Peak Demand Savings (kW)	Net Incremental Energy Savings (kWh)	Rate Allocation for LRAMVA			
				2013 kW Saved	2013 kWh Saved	Residential	General Service <50 kW	General Service 50 - 4,999 kW	Total
Consumer Program									
1	Appliance Retirement	Verified		2	12,709	100%			100%
2	Appliance Exchange	Verified		1	2,217	100%			100%
3	HVAC Incentives	Verified		31	51,560	100%			100%
4	Conservation Instant Coupon Booklet	Verified		1	12,223	100%			100%
5	Bi-Annual Retailer Event	Verified		2	27,243	100%			100%
7	Residential Demand Response (switch/pstat)	Verified		10	0	100%			100%
	Adjustments to 2013 results (if any)	True-up		1	1,176	100%			100%
Business Program									
10	Retrofit	Verified	12	99	499,515		25%	75%	100%
11	Direct Install Lighting	Verified	12	36	131,978		100%		100%
13	New Construction	Verified	12	22	194,105		33%		100%
17	Demand Response 3	Verified	0	91	1,556			100%	100%
Industrial Program									
22	Demand Response 3	Verified	0	73	1,668			100%	100%
	Adjustments to 2013 results (if any)	True-up		27	19,773			100%	100%
Home Assistance Program									
23	Home Assistance Program	Verified		2	15,764	100%			100%
	Total kWh				971,485	122,892	321,493	527,100	971,485
	Total kWh (excludes DR)				968,262	122,892	321,493	523,877	968,262
	Total GS > 50 kW							1,065	1,065
	Total GS > 50 kW (excludes Building Commissioning)							1,065	1,065
	Distribution Rate in 2013					\$0.0129	\$0.0138	\$2.5623	
	Lost Revenue in 2013 from 2011 programs					\$2,580	\$6,696	\$322	\$9,598
	Lost Revenue in 2013 from 2012 programs					\$1,659	\$6,947	\$1,567	\$10,173
	Lost Revenue in 2013 from 2013 programs					\$1,581	\$4,426	\$2,730	\$8,737
	Total Lost Revenue in 2013					\$5,820	\$18,069	\$4,618	\$28,507
	2013 Savings Persisting in 2014					122,526	320,535	579	
	2013 Savings Persisting in 2015					121,697	318,367	575	

888
0
178

Checksum DR 0

kW persistence 0.97
kW persistence 1.00

Table 10. 2014 Lost Revenues Work Form

#	Initiative	Results Status	Months of Demand Savings	Net Incremental Peak Demand Savings (kW)	Net Incremental Energy Savings (kWh)	Rate Allocation for LRAMVA			
				2014 kW Saved	2014 kWh Saved	Residential	General Service <50 kW	General Service 50 - 4,999 kW	Total
Consumer Program									
1	Appliance Retirement	Verified		1	7,429	100%			100%
2	Appliance Exchange	Verified		3	4,803	100%			100%
3	HVAC Incentives	Verified		31	56,704	100%			100%
4	Conservation Instant Coupon Booklet	Verified		4	48,382	100%			100%
5	Bi-Annual Retailer Event	Verified		13	194,897	100%			100%
7	Residential Demand Response (switch/pstat)	Verified		21	0	100%			100%
Business Program									
10	Retrofit	Verified	12	59	511,988		25%	75%	100%
11	Direct Install Lighting	Verified	12	41	150,535		100%		100%
13	New Construction	Verified	12	112	625,100		50%		100%
15	Small Commercial Demand Response (switch/pstat)	Verified	0	1	0		100%		100%
17	Demand Response 3	Verified	0	91	0			100%	100%
Industrial Program									
20	Energy Manager	Verified	12	4	372,587			100%	100%
22	Demand Response 3	Verified	0	176	0			100%	100%
Other									
30	Time-of-Use Savings	Verified		100	0	75%	25%		100%
	Total kWh				1,872,425	312,215	541,082	1,019,128	1,872,425
	Total kWh (excludes DR)				1,872,425	312,215	541,082	1,019,128	1,872,425
	Total GS > 50 kW							1,245	1,245
	Total GS > 50 kW (excludes Building Commissioning)							1,245	1,245
	Distribution Rate in 2014					\$0.0127	\$0.0121	\$2.2571	
	Lost Revenue in 2014 from 2011 programs					\$2,115	\$4,875	\$224	\$7,215
	Lost Revenue in 2014 from 2012 programs					\$1,621	\$6,027	\$1,366	\$9,013
	Lost Revenue in 2014 from 2013 programs					\$1,556	\$3,868	\$1,306	\$6,730
	Lost Revenue in 2014 from 2014 programs					\$3,965	\$6,529	\$2,810	\$13,305
	Total Lost Revenue in 2014					\$9,257	\$21,299	\$5,707	\$36,263
	2014 Savings Persisting in 2015					306,326	530,875	587	

528
0
673

Checksum DR 0

kW persistence 0.77
kW persistence 0.99
kW persistence 0.54



Ontario Energy Board

LRAMVA Work Form: 2015 Lost Revenues Work Form

2015 Lost Revenues Work Form

Instruction

LDCs can apply for disposition of LRAMVA amounts at any time, but at a minimum, must do so as part of a Cost of Service application. Lost revenues for the period prior to rebasing should be included within the LDCs load forecast on a go forward basis, negating the need for perpetual LRAMVA claims related to persisting savings from historic programs.

LDC to adjust the rate allocations by class (columns h to n). Please insert IESO verified savings for applicable programs. Adjustments will apply to the year that LRAM is claimed.

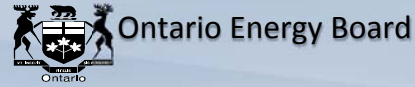
This workbook contains links from **Tab 3** (Distribution Rates) and **Tab 6** (Persistence Rates).

Legend

User Inputs (Green)
Auto Populated Cells (White)

Table 11-a. 2015 LRAM Work Form

#	Initiative	Results Status	Months of Demand Savings	Net Incremental Energy Savings (kWh)	Net Incremental Peak Demand Savings (kW)	Rate Allocation for LRAMVA				
				2015 kWh saved	2015 kW saved	Residential	General Service <50 kW	General Service 50 - 4,999 kW	Total	
2011-2014+2015 Extension Legacy Framework Programs										
Residential Program										
1	Coupon Initiative	Verified		85,913	6	100%				100%
2	Bi-Annual Retailer Event Initiative	Verified		146,333	10	100%				100%
3	Appliance Retirement Initiative	Verified		3,267	1	100%				100%
5	HVAC Incentives Initiative	Verified		65,698	35	100%				100%
Commercial & Institutional Program										
7	Energy Audit Initiative	Verified	12	71,357	15				100%	100%
8	Efficiency: Equipment Replacement Incentive Initiative	Verified	12	1,703,597	249		15.78%	79.26%		95%
9	Direct Install Lighting and Water Heating Initiative	Verified	12	113,027	26		100%			100%
10	New Construction and Major Renovation Initiative	Verified	12	425,850	66				100%	100%
11	Existing Building Commissioning Incentive Initiative	Verified	3	57,642	18				100%	100%
Industrial Program										
14	Process and Systems Upgrades Initiatives - Energy Manager Initiative	Verified	12	283,809	44				100%	100%
Low Income Program										
15	Low Income Initiative	Verified		2,983	0	100%				100%
Other										
	Program Enabled Savings			40,750	5				100%	100%
2015-2020 Conservation First Framework Programs										
	Total kWh			3,000,226		304,194	381,855	2,229,679		2,915,728
	Total GS > 50 kW							3,922		3,922
	Total GS > 50 kW (excludes Building Commissioning)							3,868		3,868
						kWh	kWh	kW		
	Distribution Rate in 2015					\$0.0127	\$0.0113	\$2.1207		
	Lost Revenue in 2015 from 2011 programs					\$2,064	\$4,430	\$208		\$6,703
	Lost Revenue in 2015 from 2012 programs					\$1,419	\$4,913	\$1,117		\$7,449
	Lost Revenue in 2015 from 2013 programs					\$1,550	\$3,587	\$1,219		\$6,356
	Lost Revenue in 2015 from 2014 programs					\$3,901	\$5,981	\$1,245		\$11,126
	Lost Revenue in 2015 from 2015 programs					\$3,873	\$4,302	\$8,318		\$16,494
	Total Lost Revenue in 2015					\$12,807	\$23,214	\$12,107		\$48,127
	2015 Savings Persisting in 2016					302,065	379,183	3,836		
	2015 Savings Persisting in 2017					276,834	347,510	3,510		
	2015 Savings Persisting in 2018					270,980	340,162	3,363		
	2015 Savings Persisting in 2019					263,662	330,975	3,233		
	2015 Savings Persisting in 2020					263,414	330,664	3,233		



LRAMVA Work Form: Persistence Rates

Persistence Rates

Instruction

To apply persistence factors to previous year's savings, this can be determined by taking the ratio of verified savings to the savings that occurred in the first year the program began. Please update the summary tables (highlighted blue boxes) with the verified results provided by the IESO. For 2011-2014 programs, these tables refer to Tables 4 and 5 (Summary Achievement Against CDM Targets). The verified results include adjustments. In the event that an LDC uses initiative level persistence, the LDC must provide these calculations in a new table below those provided here.

The persistence factors will autopopulate on the LRAM forms. This form may need to be updated with IESO data on persistence of 2011-2014 programs into 2015-2020 term.

Legend

User Inputs (Green)
Auto Populated Cells (White)

The persistence factor tables shows the level of savings from one year that will carry forward (or persist) into subsequent years.

Table 12. Determination of 2011-2014 Persistence Rates

Implementation Period	Annual Net Energy Savings (GWh)									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2011 - Verified	1.023000	1.023000	0.998000	0.829000	0.80685	0.76840	0.60488	0.56672	0.56264	0.52174
2012 - Verified	0.014000	0.879000	0.879000	0.870000	0.75957	0.71633	0.58724	0.55015	0.54996	0.54651
2013 - Verified	0.000000	0.056000	1.007000	1.004000	0.99721	0.95516	0.89229	0.87477	0.87349	0.86510
2014 - Verified	0.000000	0.034000	0.055000	1.928000	1.89163	1.86289	1.82397	1.79685	1.77294	1.74368

Implementation Period	Annual Net Peak Savings (MW)									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2011 - Verified	0.299	0.299	0.291	0.230	0.228	0.223	0.163	0.154	0.148	0.146
2012 - Verified	-0.003	0.194	0.194	0.192	0.167	0.159	0.129	0.124	0.124	0.124
2013 - Verified	0.000	0.012	0.381	0.207	0.206	0.198	0.180	0.178	0.178	0.177
2014 - Verified	0.000	0.060	0.088	0.743	0.350	0.346	0.335	0.325	0.325	0.320

Implementation Period	Persistence Factor (GWh)									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2011		1.00	0.98	0.81	0.79	0.75	0.59	0.55	0.55	0.51
2012			1.00	0.99	0.86	0.81	0.67	0.63	0.63	0.62
2013				1.00	0.99	0.95	0.89	0.87	0.87	0.86
2014					0.98	0.97	0.95	0.93	0.92	0.90

Implementation Period	Persistence Factor (MW)									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2011		1.00	0.97	0.77	0.76	0.75	0.54	0.51	0.49	0.49
2012			1.00	0.99	0.86	0.82	0.66	0.64	0.64	0.64
2013				0.54	0.54	0.52	0.47	0.47	0.47	0.46
2014					0.47	0.47	0.45	0.44	0.44	0.43

Table 13. Determination of 2015-2020 Persistence Rates

Implementation Period	Annual Net Energy Savings (GWh)					
	2015	2016	2017	2018	2019	2020
2015 - Verified	3.000	2.979	2.730	2.673	2.600	2.598
2016 - Verified						
2017 - Verified						
2018 - Verified						
2019 - Verified						
2020 - Verified						

Implementation Period	Annual Net Peak Savings (MW)					
	2015	2016	2017	2018	2019	2020
2015 - Verified		0.4750	0.4710	0.4310	0.4130	0.3970
2016 - Verified						
2017 - Verified						
2018 - Verified						
2019 - Verified						
2020 - Verified						

Implementation Period	Persistence Factor (GWh)					
	2015	2016	2017	2018	2019	2020
2015 - Verified		1.0	0.9	0.9	0.9	0.9
2016 - Verified			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2017 - Verified				#DIV/0!	#DIV/0!	#DIV/0!
2018 - Verified					#DIV/0!	#DIV/0!
2019 - Verified						#DIV/0!

Implementation Period	Persistence Factor (MW)					
	2015	2016	2017	2018	2019	2020
2015 - Verified			1.0	0.9	0.8	0.8
2016 - Verified				#DIV/0!	#DIV/0!	#DIV/0!
2017 - Verified					#DIV/0!	#DIV/0!
2018 - Verified						#DIV/0!
2019 - Verified						#DIV/0!



Ontario Energy Board

LRAMVA Work Form: Carrying Charges (by Rate Class)

Carrying Charges by Rate Class

Instruction

Please update the carrying charges in **Table 14**. The interest amounts per year will autopopulate in the LRAMVA Summary Table in **Tab 1**. LDC to adjust the rate allocations by class (columns h to n). Please insert IESO verified savings for applicable programs (columns f to g).

Please note that the carrying charges below pertain to the amount credited or debited to ratepayers based on how much was originally collected from the interest on the load forecast. As the amounts shown are running totals, please clear the yearly amounts once the LRAM claims are approved in order to cancel prior year interest collections.

Legend

User Inputs (Green)
Auto Populated Cells (White)

Table 14: Prescribed Interest Rates

Quarter	Approved Deferral and Variance Accounts
2011 Q1	1.47%
2011 Q2	1.47%
2011 Q3	1.47%
2011 Q4	1.47%
2012 Q1	1.47%
2012 Q2	1.47%
2012 Q3	1.47%
2012 Q4	1.47%
2013 Q1	1.47%
2013 Q2	1.47%
2013 Q3	1.47%
2013 Q4	1.47%
2014 Q1	1.47%
2014 Q2	1.47%
2014 Q3	1.47%
2014 Q4	1.47%
2015 Q1	1.47%
2015 Q2	1.10%
2015 Q3	1.10%
2015 Q4	1.10%
2016 Q1	1.10%
2016 Q2	1.10%
2016 Q3	1.10%
2016 Q4	1.10%
2017 Q1	
2017 Q2	
2017 Q3	
2017 Q4	
2018 Q1	
2018 Q2	
2018 Q3	
2018 Q4	
2019 Q1	
2019 Q2	
2019 Q3	
2019 Q4	
2020 Q1	
2020 Q2	
2020 Q3	
2020 Q4	

[Check OEB website](#)

Table 15: Calculation of Carrying Costs by Rate Class

Month	Interest for CDM year	Quarter	Monthly Rate	Residential	General Service <50 kW	Street Lighting	Unmetered Scattered Load	General Service 50 - 4,999 kW	Total
Jan-11	2011	Q1	0.12%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Feb-11	2011	Q1	0.12%	\$0.27	\$0.69	\$0.00	\$0.00	\$0.03	\$0.99
Mar-11	2011	Q1	0.12%	\$0.53	\$1.38	\$0.00	\$0.00	\$0.07	\$1.98
Apr-11	2011	Q2	0.12%	\$0.80	\$2.08	\$0.00	\$0.00	\$0.10	\$2.98
May-11	2011	Q2	0.12%	\$1.07	\$2.77	\$0.00	\$0.00	\$0.13	\$3.97
Jun-11	2011	Q2	0.12%	\$1.33	\$3.46	\$0.00	\$0.00	\$0.17	\$4.96
Jul-11	2011	Q3	0.12%	\$1.60	\$4.15	\$0.00	\$0.00	\$0.20	\$5.95
Aug-11	2011	Q3	0.12%	\$1.87	\$4.85	\$0.00	\$0.00	\$0.24	\$6.95
Sep-11	2011	Q3	0.12%	\$2.13	\$5.54	\$0.00	\$0.00	\$0.27	\$7.94
Oct-11	2011	Q4	0.12%	\$2.40	\$6.23	\$0.00	\$0.00	\$0.30	\$8.93
Nov-11	2011	Q4	0.12%	\$2.66	\$6.92	\$0.00	\$0.00	\$0.34	\$9.92
Dec-11	2011	Q4	0.12%	\$2.93	\$7.61	\$0.00	\$0.00	\$0.37	\$10.92
Total for fiscal year 2011				\$17.59	\$45.68	\$0.00	\$0.00	\$2.23	\$65.50
Amount Cleared									
Opening Balance for fiscal year 2012				\$17.59	\$45.68	\$0.00	\$0.00	\$2.23	\$65.50
Jan-12	2011-2012	Q1	0.12%	\$3.20	\$8.31	\$0.00	\$0.00	\$0.40	\$11.91
Feb-12	2011-2012	Q1	0.12%	\$3.63	\$9.71	\$0.00	\$0.00	\$0.60	\$13.94
Mar-12	2011-2012	Q1	0.12%	\$4.07	\$11.11	\$0.00	\$0.00	\$0.79	\$15.96
Apr-12	2011-2012	Q2	0.12%	\$4.51	\$12.50	\$0.00	\$0.00	\$0.98	\$17.99
May-12	2011-2012	Q2	0.12%	\$4.94	\$13.90	\$0.00	\$0.00	\$1.17	\$20.02
Jun-12	2011-2012	Q2	0.12%	\$5.38	\$15.30	\$0.00	\$0.00	\$1.37	\$22.05
Jul-12	2011-2012	Q3	0.12%	\$5.81	\$16.70	\$0.00	\$0.00	\$1.56	\$24.08
Aug-12	2011-2012	Q3	0.12%	\$6.25	\$18.10	\$0.00	\$0.00	\$1.75	\$26.10
Sep-12	2011-2012	Q3	0.12%	\$6.69	\$19.50	\$0.00	\$0.00	\$1.94	\$28.13
Oct-12	2011-2012	Q4	0.12%	\$7.12	\$20.90	\$0.00	\$0.00	\$2.14	\$30.16
Nov-12	2011-2012	Q4	0.12%	\$7.56	\$22.30	\$0.00	\$0.00	\$2.33	\$32.19
Dec-12	2011-2012	Q4	0.12%	\$7.99	\$23.70	\$0.00	\$0.00	\$2.52	\$34.22
Total for fiscal year 2012				\$84.73	\$237.73	\$0.00	\$0.00	\$19.79	\$342.25
Amount Cleared									
Opening Balance for fiscal year 2013				\$84.73	\$237.73	\$0.00	\$0.00	\$19.79	\$342.25
Jan-13	2011-2013	Q1	0.12%	\$8.43	\$25.10	\$0.00	\$0.00	\$2.71	\$36.24
Feb-13	2011-2013	Q1	0.12%	\$9.02	\$26.95	\$0.00	\$0.00	\$3.19	\$39.15
Mar-13	2011-2013	Q1	0.12%	\$9.62	\$28.79	\$0.00	\$0.00	\$3.66	\$42.06
Apr-13	2011-2013	Q2	0.12%	\$10.21	\$30.63	\$0.00	\$0.00	\$4.13	\$44.97
May-13	2011-2013	Q2	0.12%	\$10.81	\$32.48	\$0.00	\$0.00	\$4.60	\$47.89
Jun-13	2011-2013	Q2	0.12%	\$11.40	\$34.32	\$0.00	\$0.00	\$5.07	\$50.80
Jul-13	2011-2013	Q3	0.12%	\$11.99	\$36.17	\$0.00	\$0.00	\$5.54	\$53.71
Aug-13	2011-2013	Q3	0.12%	\$12.59	\$38.01	\$0.00	\$0.00	\$6.01	\$56.62
Sep-13	2011-2013	Q3	0.12%	\$13.18	\$39.86	\$0.00	\$0.00	\$6.49	\$59.53
Oct-13	2011-2013	Q4	0.12%	\$13.78	\$41.70	\$0.00	\$0.00	\$6.96	\$62.44
Nov-13	2011-2013	Q4	0.12%	\$14.37	\$43.55	\$0.00	\$0.00	\$7.43	\$65.35
Dec-13	2011-2013	Q4	0.12%	\$14.96	\$45.39	\$0.00	\$0.00	\$7.90	\$68.26
Total for fiscal year 2013				\$225.10	\$660.68	\$0.00	\$0.00	\$83.48	\$969.25
Amount Cleared									
Opening Balance for fiscal year 2014				\$225.10	\$660.68	\$0.00	\$0.00	\$83.48	\$969.25
Jan-14	2011-2014	Q1	0.12%	\$15.56	\$47.24	\$0.00	\$0.00	\$8.37	\$71.17
Feb-14	2011-2014	Q1	0.12%	\$15.16	\$48.71	-\$0.14	\$0.00	\$8.24	\$71.97
Mar-14	2011-2014	Q1	0.12%	\$14.76	\$50.18	-\$0.27	-\$0.01	\$8.12	\$72.77
Apr-14	2011-2014	Q2	0.12%	\$14.36	\$51.65	-\$0.41	-\$0.01	\$7.99	\$73.58
May-14	2011-2014	Q2	0.12%	\$13.96	\$53.12	-\$0.55	-\$0.01	\$7.86	\$74.38
Jun-14	2011-2014	Q2	0.12%	\$13.56	\$54.59	-\$0.68	-\$0.02	\$7.73	\$75.18
Jul-14	2011-2014	Q3	0.12%	\$13.16	\$56.06	-\$0.82	-\$0.02	\$7.61	\$75.99
Aug-14	2011-2014	Q3	0.12%	\$12.76	\$57.53	-\$0.96	-\$0.02	\$7.48	\$76.79
Sep-14	2011-2014	Q3	0.12%	\$12.36	\$59.01	-\$1.09	-\$0.03	\$7.35	\$77.59
Oct-14	2011-2014	Q4	0.12%	\$11.96	\$60.48	-\$1.23	-\$0.03	\$7.23	\$78.40
Nov-14	2011-2014	Q4	0.12%	\$11.55	\$61.95	-\$1.36	-\$0.04	\$7.10	\$79.20
Dec-14	2011-2014	Q4	0.12%	\$11.15	\$63.42	-\$1.50	-\$0.04	\$6.97	\$80.00
Total for fiscal year 2014				\$385.37	\$1,324.60	-\$9.01	-\$0.23	\$175.53	\$1,876.26
Amount Cleared									
Opening Balance for fiscal year 2015				\$204.37	\$790.20	-\$19.52	-\$0.23	\$175.53	\$1,150.34
Jan-15	2011-2015	Q1	0.12%	\$2.53	\$40.60	-\$1.64	-\$0.04	\$6.37	\$47.81
Feb-15	2011-2015	Q1	0.12%	\$2.49	\$42.31	-\$1.79	-\$0.04	\$6.93	\$49.89
Mar-15	2011-2015	Q1	0.12%	\$2.44	\$44.03	-\$1.95	-\$0.05	\$7.50	\$51.98
Apr-15	2011-2015	Q2	0.09%	\$1.80	\$34.23	-\$1.57	-\$0.04	\$6.04	\$40.45
May-15	2011-2015	Q2	0.09%	\$1.77	\$35.51	-\$1.69	-\$0.04	\$6.47	\$42.01
Jun-15	2011-2015	Q2	0.09%	\$1.74	\$36.79	-\$1.80	-\$0.04	\$6.89	\$43.57
Jul-15	2011-2015	Q3	0.09%	\$1.70	\$38.07	-\$1.92	-\$0.04	\$7.32	\$45.13
Aug-15	2011-2015	Q3	0.09%	\$1.67	\$39.36	-\$2.04	-\$0.04	\$7.74	\$46.69
Sep-15	2011-2015	Q3	0.09%	\$1.64	\$40.64	-\$2.15	-\$0.05	\$8.17	\$48.25
Oct-15	2011-2015	Q4	0.09%	\$1.61	\$41.92	-\$2.27	-\$0.05	\$8.59	\$49.81
Nov-15	2011-2015	Q4	0.09%	\$1.58	\$43.20	-\$2.38	-\$0.05	\$9.02	\$51.37
Dec-15	2011-2015	Q4	0.09%	\$1.55	\$44.48	-\$2.50	-\$0.05	\$9.45	\$52.93
Total for fiscal year 2015				\$226.89	\$1,271.33	-\$43.22	-\$0.76	\$266.01	\$1,720.25
Amount Cleared									