EXHIBIT 7 - COST ALLOCATION

EB-2014-0080

Table of Contents

Cost Allocation Study Requirements

Ex.7/Tab 1/Sch.1 - Overview of Cost Allocation

HPDC has prepared and is filling a cost allocation informational filing consistent with its understanding of the Directions and Policies in the Board's reports of November 28, 2007 Application of Cost Allocation for Electricity Distributors, and March 31, 2011 Review of Electricity Distribution Cost Allocation Policy (EB-2010-0219) (the "Cost Allocation Reports") and all subsequent updates.

The main objectives of the original informational filing in 2006 were to provide information on any apparent cross-subsidization among a distributor's rate classifications and to support future rate applications. As part of its 2010 Cost of Service Rate Application, HPDC updated the cost allocation revenue to cost ratios with 2010 base revenue requirement information. The revenue to cost ratios from the 2010 application are presented below. Note that the ratios for the General Service > 50 and Street Lights were phased in over several years.

Table 7.1- Previously Approved Ratios (2010 COS)

Customer Class Name	2010 Approved Revenue to Cost Ratio
Residential	0.98
General Service < 50 kW	1.00
General Service > 50 to 4999 kW	1.80
Intermediate	0.80
Sentinel Lights	0.70
Street Lighting	0.70

The Cost Allocation Study for 2015 allocates the 2015 test year costs (i.e., the 2015 forecast revenue requirement) to the various customer classes using allocators that are based on the forecast class loads (kW and kWh) by class, customer counts, etc.

HPDC has used the updated OEB-approved Cost Allocation Model and followed the instructions and guidelines issued by the OEB to enter the 2015 data into this model.

HPDC populated the information on Sheet I3, Trial Balance Data with the 2015 forecasted data, Target Net Income, PILs, Deemed interest on long term debt, and the targeted Revenue Requirement and Rate Base.

On Sheet I4, Break-out of Assets, HPDC updated the allocation of the accounts based on 2015 values.

In Sheet I5.1, Miscellaneous data, HPDC updated the deemed equity component of rate base, kilometer of roads in the service area, working capital allowance, the proportion of pole rental revenue from secondary poles, and the monthly service charges.

As instructed by the Board, in Sheet I5.2, Weighting Factors, HPDC has used LDC specific factors rather than continue to use OEB approved default factors. The utility has applied service and billing & collecting weightings for each customer classification.

These weightings are based on a review of time and costs incurred in servicing its customer classes; they are discussed further below.

Table 7.2 – Weighting Factors

	Residential	General Service < 50 kW	General Service > 50 to 1499 kW	Intermediate	Sentinel Lighting	Street Lighting
Insert Weighting Factor for Services Account 1855	1.00	2.00	2.00	2.00	0.00	0.00
Insert Weighting Factor for Billing and Collecting	1.00	0.87	1.90	0.85	0.85	0.85

Proposed Services Weighting Factors

Residential: the Services weighting factor was set to “1”, per Cost Allocation instruction sheet.

General Service less than 50 kW, General Service greater than 50 kW, Intermediate: The proposed Services weighting factor of 2.0 reflects that these customers require greater capacity than do residential customers as well increased levels of engineering and planning.

Street Lighting and Sentinel Load: A Services weighting factor of 0 is proposed for both customer classes as the costs incurred to provide Services for either of these customer classes are the responsibility of the City of Hearst

Proposed Billing and Collecting Weighting Factors

Residential: the Billing weighting factor is set at "1", per Cost Allocation instruction sheet.

General Service less than 50 kW: the proposed Billing and Collecting weighting factor is 1.2. Versus the residential customer class, the utility HPDC has less bill to print and receive less calls than the Residential Class

General Service greater than 50 kW: The proposed billing and collecting weighting factor is 1.9 and the additional staff time is required to prepare and finalize the bill. The collecting costs are higher than those incurred when dealing with General Service < 50 kW customers.

Intermediate: The weighting factor reflects the extremely low volume of bills issued. This class does not give rise to Collecting costs.

Street Lighting: The proposed weighting factor is 0.85. This customer class does not give rise to Collecting activity and so no Collecting costs have been allocated. The weighting factor reflects the extremely low volume of bills issued.

Sentinel Lights: the proposed weighting factor is 0.85. Like Street Lighting, this class does not give rise to Collecting costs. The weighting factor reflects that relatively few bills are issued to this customer class.

In Sheet I6.1 Revenue has been populated with the 2015 Test Year forecast data as well as existing rates.

Sheet I6.2 has been updated with the required Bad Debt and Late Payment revenue data as well as customer/connection number information devices.

HPDC updated the capital cost meter information on Sheet I7.1 and the meter reading information on I7.2 to reflect its recently completed deployment of smart meters.

The data entered on sheet I8 reflects the findings of the 2004 hour by hour load data being scaled to be consistent with the 2015 load forecast and the inspection of the scaled data to identify the system peaks and class specific peaks.

Table 7.3 – Load Profiles from 2010 CoS

Customer Classes		Residential	GS>50kW	Street Lighting	Sentinel Lighting	GS<50 kW	Intermediate Use
CO-INCIDENT PEAK (kW)							
1 CP							
Total Sytem CP	DCP1	5602.13	4189.79	88.25	5.20	1996.13	8784.01
4 CP							
Total Sytem CP	DCP4	20277.76	14949.54	413.63	24.37	7884.00	34357.18
12 CP							
Total Sytem CP	DCP12	45434.77	39616.17	678.81	39.91	19540.40	102551.25
NON CO_INCIDENT PEAK (kW)							
1 NCP							
Classification NCP from Load Data Provider	DNCP1	6662.00	4241.73	265.02	15.63	2265.83	9120.06
4 NCP							
Classification NCP from Load Data Provider	DNCP4	25897.21	16100.92	1064.66	62.74	9088.16	36169.73
12 NCP							
Classification NCP from Load Data Provider	DNCP12	57815.05	42285.09	3151.18	185.35	22440.97	104868.62

Table 7.4 – Demand Data for 2015 Test Year (adjusted for 2015 Load Forecast)

Customer Classes		Residential	GS>50kW	Street Lighting	Sentinel Lighting	GS<50 kW	Intermediate Use
CO-INCIDENT PEAK (kW)							
1 CP							
Total Sytem CP	DCP1	5784.50	3254.28	101.41	3.92	1631.91	8036.25
4 CP							
Total Sytem CP	DCP4	20896.86	14026.26	193.42	7.46	6629.39	27369.58
12 CP							
Total Sytem CP	DCP12	46207.21	37019.95	277.37	10.70	16493.23	80933.55
NON CO_INCIDENT PEAK (kW)							
1 NCP							
Classification NCP from Load Data Provider	DNCP1	5929.68	4067.24	101.41	3.92	1894.09	9120.06
4 NCP							
Classification NCP from Load Data Provider	DNCP4	23050.44	15438.58	407.38	15.75	7597.10	36169.73
12 NCP							
Classification NCP from Load Data Provider	DNCP12	51459.70	40545.61	1205.77	46.54	18759.16	104868.62

No Direct Allocations were entered on Sheet I9.

The revenue to cost ratios calculated on Sheet O1 of the Cost Allocation model updated for the 2015 Test Year are provided at the next page.

1 **Sheet I-6 of the Cost Allocation Model**

Ontario Energy Board

2015 Cost Allocation Model

EB-2014-0080

Sheet I6.1 Revenue Worksheet - Run 1

Total kWhs from Load Forecast	78,421,746
Total kWs from Load Forecast	128,313
Deficiency/sufficiency (RRWF 8. cell F51)	61,999
Miscellaneous Revenue (RRWF 5. cell F48)	218,986

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	ID	Total	Residential	General Service < 50 kW	General Service > 50 to 1499 kW	Intermediate	Sentinel Lighting	Street Lighting	Rate Class 4	Rate Class 3	Rate Class 2	Rate Class 1	Rate Class 0	Rate Class 1	Rate class 2	Rate class 3	Rate class 4	Rate class 5	Rate class 6	Rate class 7	Rate class 8	Rate class 9
Billing Data																						
Forecast kWh	CEN	78,421,746	24,257,123	10,891,433	22,260,744	20,565,227	16,617	430,600														
Forecast kW	CDEM	128,313	-	-	63,249	60,563	50	4,451														
Forecast kW, included in CDEM, of customers receiving line transformer allowance		79,340			17,580	61,760																
Optional - Forecast kWh, included in CEN, from customers that receive a line transformation allowance on a kWh basis. In most cases this will not be applicable and will be left blank.		-																				
KWh excluding KWh from Wholesale Market Participants	CEN EWMP	79,084,135	24,262,182	10,893,705	22,265,386	20,569,516	16,621	1,076,725				-	-	-	-	-	-	-	-	-	-	-
Existing Monthly Charge			$9.19	$19.76	$54.82	$223.01	$7.09	$7.88														
Existing Distribution kWh Rate			$0.0160	$0.0067																		
Existing Distribution kW Rate					$2.3213	$1.0215	$3.1198	$2.2937														
Existing TOA Rate					$0.45	$0.45																
Additional Charges																						
Distribution Revenue from Rates		$1,163,773	$638,787	$183,771	$173,062	$66,756	$1,261	$100,136	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Transformer Ownership Allowance		$35,703	$0	$0	$7,911	$27,792	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Net Class Revenue	CREV	$1,128,070	$638,787	$183,771	$165,150	$38,964	$1,261	$100,136	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

1 **Sheet I-8 of the Cost Allocation Model**

Ontario Energy Board

2015 Cost Allocation Model

EB-2014-0060

Sheet I8 Demand Data Worksheet - Run 1

This is an input sheet for demand allocators.

CP TEST RESULTS	4 CP
NCP TEST RESULTS	4 NCP

Co-incident Peak	Indicator
1 CP	CP 1
4 CP	CP 4
12 CP	CP 12

Non-co-incident Peak	Indicator
1 NCP	NCP 1
4 NCP	NCP 4
12 NCP	NCP 12

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Customer Classes		Total	Residential	General Service < 50 kW	General Service > 50 to 1499 kW	Intermediate	Sentinel Lighting	Street Lighting	Rate Class 4	Rate Class 3	Rate Class 2	Rate Class 1	Rate Class 0	Rate Class 1	Rate class 2	Rate class 3	Rate class 4	Rate class 5	Rate class 6	Rate class 7	Rate class 8	Rate class 9
CO-INCIDENT PEAK																						
1 CP																						
Transformation CP	TCP1	19,176	5,785	1,996	3,254	8,036	4	101														
Bulk Delivery CP	BCP1	19,176	5,785	1,996	3,254	8,036	4	101														
Total Sytem CP	DCP1	19,176	5,785	1,996	3,254	8,036	4	101														
4 CP																						
Transformation CP	TCP4	70,378	20,897	7,884	14,026	27,370	7	193														
Bulk Delivery CP	BCP4	70,378	20,897	7,884	14,026	27,370	7	193														
Total Sytem CP	DCP4	70,378	20,897	7,884	14,026	27,370	7	193														
12 CP																						
Transformation CP	TCP12	183,989	46,207	19,540	37,020	80,934	11	277														
Bulk Delivery CP	BCP12	183,989	46,207	19,540	37,020	80,934	11	277														
Total Sytem CP	DCP12	183,989	46,207	19,540	37,020	80,934	11	277														
NON CO_INCIDENT PEAK																						
1 NCP																						
Classification NCP from Load Data Provider	DNCP1	21,116	5,930	1,894	4,067	9,120	4	101														
Primary NCP	PNCP1	21,116	5,930	1,894	4,067	9,120	4	101														
Line Transformer NCP	LTNCP1	21,116	5,930	1,894	4,067	9,120	4	101														
Secondary NCP	SNCP1	21,116	5,930	1,894	4,067	9,120	4	101														
4 NCP																						
Classification NCP from Load Data Provider	DNCP4	82,679	23,050	7,597	15,439	36,170	16	407														
Primary NCP	PNCP4	82,679	23,050	7,597	15,439	36,170	16	407														
Line Transformer NCP	LTNCP4	82,679	23,050	7,597	15,439	36,170	16	407														
Secondary NCP	SNCP4	82,679	23,050	7,597	15,439	36,170	16	407														
12 NCP																						
Classification NCP from Load Data Provider	DNCP12	216,885	51,460	18,759	40,546	104,869	47	1,206														
Primary NCP	PNCP12	216,885	51,460	18,759	40,546	104,869	47	1,206														
Line Transformer NCP	LTNCP12	216,885	51,460	18,759	40,546	104,869	47	1,206														
Secondary NCP	SNCP12	216,885	51,460	18,759	40,546	104,869	47	1,206														

1 **Sheet O-1 of the Cost Allocation Model**

Ontario Energy Board

2015 Cost Allocation Model

EB-2014-0086

Sheet O1 Revenue to Cost Summary Worksheet - Run 1

Instructions:
Please see the first tab in this workbook for detailed instructions

Class Revenue, Cost Analysis, and Return on Rate Base

Rate Base Assets		Total	1 Residential	2 General Service < 50 kW	3 General Service > 50 to 1499 kW	4 Intermediate	5 Sentinel Lighting	6 Street Lighting	7 Rate Class 4	8 Rate Class 3	9 Rate Class 2	10 Rate Class 1	11 Rate Class 0	12 Rate Class 1	13 Rate class 2	14 Rate class 3	15 Rate class 4	16 Rate class 5	17 Rate class 6	18 Rate class 7	19 Rate class 8	20 Rate class 9
crev	Distribution Revenue at Existing Rates	$1,128,070	$638,787	$183,771	$165,150	$38,964	$1,261	$100,136	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
mi	Miscellaneous Revenue (mi)	$218,986	$133,268	$27,006	$14,880	$21,688	$412	$21,732	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
		Miscellaneous Revenue Input equals Output																				
	Total Revenue at Existing Rates	$1,347,056	$772,055	$210,777	$180,030	$60,652	$1,673	$121,868	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Factor required to recover deficiency (1 + D)	1.0521																				
	Distribution Revenue at Status Quo Rates	$1,186,316	$672,088	$193,351	$173,760	$40,995	$1,327	$105,356	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Miscellaneous Revenue (mi)	$218,986	$133,268	$27,006	$14,880	$21,688	$412	$21,732	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Total Revenue at Status Quo Rates	$1,405,302	$805,355	$220,357	$188,640	$62,683	$1,739	$127,088	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Expenses																					
di	Distribution Costs (di)	$541,775	$267,997	$70,921	$43,323	$83,601	$1,033	$74,899	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
cu	Customer Related Costs (cu)	$294,085	$240,318	$42,921	$9,980	$205	$588	$74	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
ad	General and Administration (ad)	$251,428	$152,746	$34,476	$16,111	$25,346	$479	$22,271	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
dep	Depreciation and Amortization (dep)	$136,609	$83,616	$24,033	$9,315	$13,760	$79	$5,707	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
INPUT	PILs (INPUT)	$3,329	$1,954	$557	$247	$395	$2	$173	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
INT	Interest	$76,091	$44,673	$12,739	$5,643	$9,035	$58	$3,947	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Total Expenses	$1,303,316	$791,304	$185,647	$84,617	$132,342	$2,236	$107,070	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Direct Allocation	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
NI	Allocated Net Income (NI)	$102,646	$60,264	$17,185	$7,612	$12,188	$74	$5,324	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Revenue Requirement (includes NI)	$1,405,962	$851,567	$202,832	$92,229	$144,530	$2,310	$112,394	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
		Revenue Requirement Input equals Output																				
	Rate Base Calculation																					
	Net Assets																					
dp	Distribution Plant - Gross	$3,984,630	$1,771,847	$486,564	$347,429	$665,588	$4,274	$308,928	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
gp	General Plant - Gross	$1,486,503	$872,729	$248,872	$110,232	$176,500	$1,068	$77,102	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
accum dep	Accumulated Depreciation	($3,623,655)	($1,794,759)	($493,097)	($350,323)	($670,222)	($4,302)	($310,952)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
co	Capital Contribution	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Total Net Plant	$1,447,478	$849,818	$242,339	$107,338	$171,866	$1,040	$75,078	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Directly Allocated Net Fixed Assets	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
COP	Cost of Power (COP)	$9,039,200	$2,795,972	$1,255,390	$2,565,861	$2,370,429	$1,915	$49,633	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	OM&A Expenses	$1,887,288	$661,061	$148,317	$69,413	$109,153	$2,100	$97,244	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Directly Allocated Expenses	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Subtotal	*$10,126,488*	*$3,457,032*	*$1,403,707*	*$2,635,275*	*$2,479,582*	*$4,015*	*$146,876*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*	*$0*
	Working Capital	$1,316,443	$449,414	$182,482	$342,586	$322,346	$522	$19,094	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Total Rate Base	$2,763,922	$1,299,232	$424,821	$449,924	$494,212	$1,562	$94,171	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
		Rate Base Input Does Not Equal Output																				
	Equity Component of Rate Base	$1,105,569	$519,693	$169,928	$179,970	$197,685	$625	$37,669	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Net Income on Allocated Assets	$102,646	$14,051	$34,711	$104,022	($69,659)	($498)	$20,018	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Net Income on Direct Allocation Assets	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Net Income	$102,646	$14,051	$34,711	$104,022	($69,659)	($498)	$20,018	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	RATIOS ANALYSIS																					
	REVENUE TO EXPENSES STATUS QUO%	100.00%	94.57%	108.64%	204.53%	43.37%	75.27%	113.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	EXISTING REVENUE MINUS ALLOCATED COSTS	($58,807)	($79,512)	$7,946	$87,801	($83,878)	($637)	$9,474	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
		Deficiency Input Does Not Equal Output																				
	STATUS QUO REVENUE MINUS ALLOCATED COSTS	$0	($46,212)	$17,526	$96,410	($81,847)	($571)	$14,694	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	RETURN ON EQUITY COMPONENT OF RATE BASE	9.28%	2.70%	20.43%	57.80%	-35.24%	-79.61%	53.14%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Sheet O-2 of the Cost Allocation Model

Ontario Energy Board

2015 Cost Allocation Model

EB-2014-0060

Sheet O2 Monthly Fixed Charge Min. & Max. Worksheet - Run 1

Output sheet showing minimum and maximum level for Monthly Fixed Charge

Summary

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Residential	General Service < 50 kW	General Service > 50 to 1499 kW	Intermediate	Sentinel Lighting	Street Lighting	Rate Class 4	Rate Class 3	Rate Class 2	Rate Class 1	Rate Class 0	Rate Class 1	Rate class 2	Rate class 3	Rate class 4	Rate class 5	Rate class 6	Rate class 7	Rate class 8	Rate class 9
Customer Unit Cost per month - Avoided Cost	$10.57	$11.79	$19.77	$2.98	$3.56	-$0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Customer Unit Cost per month - Directly Related	$14.46	$16.14	$28.42	$9.86	$4.62	-$0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Customer Unit Cost per month - Minimum System with PLCC Adjustment	$26.84	$29.59	$47.66	$23.86	$14.61	$9.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing Approved Fixed Charge	$9.19	$19.76	$54.82	$223.01	$7.09	$7.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Class Revenue Requirements

Ex.7/Tab 2/Sch.1 - Class Revenue Analysis

The table below shows the results of the cost allocation updated 2015 study. These results are used to compare, analyze the allocation under each options and help the utility determine its 2015 proposed ratios.

Table 7.5 - Previously Approved Ratios (2010 COS)

Customer Class Name	Service Rev Req (row40)		Misc. Revenue (mi) (row19)		Base Rev Req		Rev2Cost Expenses % (row 75)
Residential	851,567	60.57%	133,268	60.86%	718,300	60.52%	94.57%
General Service < 50 kW	202,832	14.43%	27,006	12.33%	175,825	14.81%	108.64%
General Service > 50 to 4999 kW	92,229	6.56%	14,880	6.79%	77,349	6.52%	204.53%
Intermediate	144,530	10.28%	21,688	9.90%	122,842	10.35%	43.37%
Sentinel Lights	2,310	0.16%	412	0.19%	1,898	0.16%	75.27%
Street Lighting	112,394	7.99%	21,732	9.92%	90,662	7.64%	113.07%
TOTAL	**1,405,862**	**100.00%**	**218,986**	**100.00%**	**1,186,876**	**100.00%**	

The table below shows the allocation percentage and base revenue requirement allocation under existing rates, cost allocation results and proposed 2015 proposed allocation.

Table 7.6 - Base Revenue Requirement under 3 scenarios

Base Revenue Requirement %						
Customer Class Name	**Existing Rates**		**Cost Allocation Results**		**Proposed Allocation**	
Residential	56.63%	672,084	60.52%	718,300	57.74%	685,345
General Service < 50 kW	16.29%	193,350	14.81%	175,825	16.00%	189,952
General Service > 50 to 4999 kW	14.64%	173,759	6.52%	77,349	11.18%	132,687
Intermediate	3.45%	40,995	10.35%	122,842	6.08%	72,165
Sentinel Lights	0.11%	1,327	0.16%	1,898	0.12%	1,436
Street Lighting	8.88%	105,362	7.64%	90,662	8.87%	105,292
TOTAL	**100.00%**	**1,186,876**	**100.00%**	**1,186,876**	**100.00%**	**1,186,876**

Table 7.7 below shows the revenue offset allocation which resulted from Cost Allocation Study (Sheet O1)

Table 7.7- Revenue Offset Allocation as per Cost Allocation Study

Revenue Offsets	
%	**$**
60.86%	133,268
12.33%	27,006
6.79%	14,880
9.90%	21,688
0.19%	412
9.92%	21,732
100.00%	**218,986**

Table 7.8 shows the allocation of the service revenue requirement under the same 3 scenarios.

Table 7.8- Service Revenue Requirement under 3 scenarios

Service Revenue Requirement $		
Existing Rates	Cost Allocation Results	Rate Application
805,351	851,567	818,612
220,356	202,832	216,958
188,639	92,229	147,567
62,683	144,530	93,853
1,739	2,310	1,848
127,094	112,394	127,024
1,405,862	1,405,862	1,405,862

Revenue-to-Cost Ratios

Ex.7/Tab 3/Sch.1 - Cost Allocation Results and Analysis

The table at the next page shows Appendix 2-P of the Board Appendices. The appendix provides information on previously approved ratios and proposed ratios. The section following Appendix 2-P addresses the method and logic used to update the ratios from the Cost Allocation study to the proposed ratios.

Cost Allocation

Please complete the following four tables.

A) Allocated Costs

Classes	Costs Allocated from Previous Study	%	Costs Allocated in Test Year Study (Column 7A)	%
Residential			$ 851,567	60.57%
GS < 50 kW			$ 202,832	14.43%
GS > 50 kW			$ 92,229	6.56%
Intermediate			$ 144,530	10.28%
Sentinel Lighting			$ 2,310	0.16%
Street Lighting			$ 112,394	7.99%
				0.00%
				0.00%
				0.00%
				0.00%
				0.00%
Total	$ -	0.00%	$ 1,405,862	100.00%

Notes

1 Customer Classification - If proposed rate classes differ from those in place in the previous Cost Allocation study, modify the rate classes to match the current application as closely as possible.

2 Host Distributors - Provide information on embedded distributor(s) as a separate class, if applicable. If embedded distributor(s) are billed as customers in a General Service class, include the allocated cost and revenue of the embedded distributor(s) in the applicable class. Also complete Appendix 2-Q.

3 Class Revenue Requirements - If using the Board-issued model, in column 7A enter the results from Worksheet O-1, Revenue Requirement (row 40 in the 2013 model). This excludes costs in deferral and variance accounts. Note to Embedded Distributor(s), it also does not include Account 4750 - Low Voltage (LV) Costs.

B) Calculated Class Revenues

Classes (same as previous table)	Column 7B Load Forecast (LF) X current	Column 7C L.F. X current approved rates X	Column 7D LF X proposed rates	Column 7E Miscellaneous Revenue
Residential	$ 672,084	$ 718,300	$ 685,345	$ 133,268
GS < 50 kW	$ 193,350	$ 175,825	$ 189,952	$ 27,006
GS > 50 kW	$ 173,759	$ 77,349	$ 132,687	$ 14,880
Intermediate	$ 40,995	$ 122,842	$ 72,165	$ 21,688
Sentinel Lighting	$ 1,327	$ 1,898	$ 1,436	$ 412
Street Lighting	$ 105,362	$ 90,662	$ 105,292	$ 21,732
0				
0				
0				
0				
Total	$ 1,186,876	$ 1,186,876	$ 1,186,876	$ 218,986

Notes:

1 Columns 7B to 7D - LF means Load Forecast of Annual Billing Quantities (i.e. customers or connections X 12, (kWh or kW, as applicable). Revenue Quantities should be net of Transfomrer Ownership Allowance. Exclude revenue from rate adders and rate riders.

2 Columns 7C and 7D - Column total in each column should equal the Base Revenue Requirement

3 Columns 7C - The Board cost allocation model calculates "1+d" in worksheet O-1, cell C21. "d" is defined as Revenue Deficiency/ Revenue at Current Rates.

4 Columns 7E - If using the Board-issued Cost Allocation model, enter Miscellaneous Revenue as it appears in Worksheet O-1, row 19.

C) Rebalancing Revenue-to-Cost (R/C) Ratios

Class	Previously Most Recent 20XX	Status Quo (7C + 7E) / (7A)	Proposed Ratios (7D + 7E) / (7A)	Policy Range
	%	%	%	%
Residential	0.98	100.00	96.13	85 - 115
GS < 50 kW	1.00	100.00	106.96	80 - 120
GS > 50 kW	1.00	100.00	160.00	80 - 120
Intermediate	0.80	100.00	64.94	80 - 120
Sentinel Lighting	0.70	100.00	80.00	85 - 115
Street Lighting	0.70	100.00	113.02	70 - 120
0				80 - 120
0				80 - 120
0				
0				

Notes

1 Previously Approved Revenue-to-Cost Ratios - For most applicants, Most Recent Year would be the third year of the IRM 3 period, e.g. if the applicant rebased in 2009 with further adjustments over 2 years, the Most recent year is 2011. For applicants whose most recent rebasing year is 2006, the applicant should enter the ratios from their Informational Filing.

2 Status Quo Ratios - The Board's updated Cost Allocation Model yields the Status Quo Ratios in Worksheet O-1. Status Quo means "Before Rebalancing".

D) Proposed Revenue-to-Cost Ratios

Class	Proposed Revenue-to-Cost Ratios			Policy Range
	2015	2016	2017	
	%	%	%	%
Residential	96.13			85 - 115
GS < 50 kW	106.96			80 - 120
GS > 50 kW	160.00	1.2		80 - 120
Intermediate	64.94	0.8		80 - 120
Sentinel Lighting	80.00			85 - 115
Street Lighting	113.02			70 - 120
0				80 - 120
0				80 - 120
0				0
				0
0				

Note

1 The applicant should complete Table D if it is applying for approval of a revenue to cost ratio in 2013 that is outside the Board's policy range for any customer class. Table (d) will show the information that the distributor would likely enter in the IRM model) in 2013. In 2014 Table (d), enter the planned ratios for the classes that will be 'Change' and 'No Change' in 2014 (in the current Revenue Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision – Cost Revenue Adjustment', column d), and enter TBD for class(es) that will be entered as 'Rebalance'.

The table below shows the utility's proposed Revenue to Cost reallocation based on an analysis of the proposed results from the Cost Allocation Study vs the Board imposed floor and ceiling ranges.

Table 7.9- Proposed Allocation

Revenue to Cost Ratio Allocation

Ratio Allocation				Target Range		3 Year Revenue to Cost Alignment		
Customer Class Name	Calculated R/C Ratio	Proposed R/C Ratio	Variance	Floor	Ceiling	2016	2017	2018
Residential	0.95	0.96	-0.02	0.85	1.15			
General Service < 50 kW	1.09	1.07	0.02	0.80	1.20			
General Service > 50 to 4999 kW	2.05	1.60	0.45	0.80	1.20	1.20		
Intermediate	0.43	0.65	-0.22	0.80	1.20	0.80		
Sentinel Lights	0.75	0.80	-0.05	0.80	1.20			
Street Lighting	1.13	1.13	0.00	0.70	1.20			

* Ratios highlighted in pink fell outside of the floor to ceiling range.

The proposed Revenue to Cost ratio is adjusted by changing the allocation percentage for each class. The utility reviews and assesses the bill impacts for each class before adjusting the Revenue to Cost ratios.

HPDC proposes to increase the ratio for the Residential class from 88% to 91%. The General Service <50kW class does not need adjusting as it fully recovers its costs. At its current rates, the General Service>50kW is over-recovering revenues in comparison to its allocated costs. The class is recovering 174K in comparison to its 70K allocated costs. Since the calculated ratio is significantly higher than the ceiling of 120%, adjusting it down to the ideal level would create an unacceptable increase, therefore, the utility proposed to adjust the revenue to cost ratio over the period of 2015-2017. The utility proposes to adjust it from 248% to 200% in the Test Year and further adjust it down to 160% in 2016 and finally down to 120% in 2017.

The utility does not propose any changes to the Intermediate class as it is within the range. (In previous decisions, the Board expressed reluctance to move revenue-to-cost ratios to 100% for each rate class in an effort to remove cross-subsidization. The Board stated that there are data limitations inherent in cost allocation models, and noted that as a practical matter, there may be little difference between a revenue-to-cost ratio of near 100% and the theoretical ideal of 100%.)

The calculated ratio for the Sentinel Lights fell well below the imposed lower limit (floor) of 80%. Although the class only recovers a small percentage of the revenue requirement (0.25% of the base revenue requirement), the utility must nonetheless be mindful of the bill impacts for this

class. Implementing the Revenue to Cost reallocation over the period of 2015 to 2017 helps reduce an already very high bill impact. For further details about the class specific bill impacts, please refer to Exhibit 8.

Per the Filing Requirements for Transmission and Distribution Applications dated July 17, 2013, HPDC has completed OEB Appendix 2-P with the results of the 2015 cost allocation study. The Allocated cost table (Table 2), calculated class revenues (Table 3) and Rebalancing Revenue-to-Cost (Revenue to Cost) Ratios (Table 4) are summarized below.

The calculated Revenue to Cost ratio for the Street Light class also fell short of the ceiling by 2%. The utility adjusted it down to 120%.