IN THE MATTER OF the Ontario Energy Board Act, 1998, S.O. 1998, c. 15, (Schedule B);

AND IN THE MATTER OF an application by Thunder Bay Hydro Electricity Distribution Inc. for an order approving just and reasonable rates and other charges for electricity distribution to be effective May 1, 2017.

THUNDER BAY HYDRO ELECTRICITY DISTRIBUTION INC. REVISED SETTLEMENT PROPOSAL

Filed: April 27, 2017

Thunder Bay Hydro Electricity Distribution Inc.

EB-2016-0105

Revised Settlement Proposal

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LIVE EXCEL MODELS

Contents

In addition to the Appendices listed above, the following live excel models have been filed together with and form an integral part of this Settlement Proposal:

- A) Thunder Bay Hydro 2017 Load Forecast Settlement No Manual CDM Adj
- B) Thunder Bay Hydro 2017 Load Forecast Settlement

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Thunder Bay Hydro Electricity Distribution Inc.

EB-2016-0105

Revised Settlement Proposal

Filed with OEB: April 27, 2017

Thunder Bay Hydro Electricity Distribution Inc. (the "Applicant" or "Thunder Bay Hydro") filed an application with the Ontario Energy Board (the "Board") on September 9, 2016, as amended on October 5, 2016, under section 78 of the *Ontario Energy Board Act, 1998*, S.O. 1998, c. 15, (Schedule B) (the "Act"), seeking approval for changes to the rates that Thunder Bay Hydro charges for electricity distribution, to be effective May 1, 2017 (Board Docket Number EB-2016-0105) (the "Application").

The Board issued and Thunder Bay Hydro published a Notice of Application and Hearing dated November 9, 2016 and Procedural Order No. 1 on December 5, 2016, the latter of which required the parties to the proceeding to develop a draft issues list.

Thunder Bay Hydro filed its interrogatory responses with the Board on January 31, 2017, pursuant to which Thunder Bay Hydro updated several models and submitted them to the Board as Live Excel documents. On February 3, 2017, following the interrogatories, OEB staff submitted a proposed issues list as agreed to by the parties and two items that were in dispute. On February 10, 2017, the Board issued its Decision on the Issues List, approving the issues list attached thereto (the "Approved Issues List").

This Settlement Proposal is filed with the Board in connection with the Application. It has been revised in accordance with the oral decision of the Board made April 20, 2017. It supersedes and replaces the settlement proposal that was originally filed with the Board on March 31, 2017.

Further to the Board's Procedural Order No. 1, a settlement conference was convened on February 14, 2017 in accordance with the Board's *Rules of Practice and Procedure* (the "Rules") and the Board's *Practice Direction on Settlement Conferences* (the "Practice Direction"). Mr. Chris Haussmann acted as facilitator for the settlement conference which lasted for 3 day(s).

Thunder Bay Hydro and the following intervenors (the "Intervenors"), participated in the settlement conference:

Association of Major Power Consumers in Ontario ("AMPCO"); School Energy Coalition ("SEC"); and Vulnerable Energy Consumers Coalition ("VECC").

Thunder Bay Hydro and the Intervenors are collectively referred to below as the "Parties".

Ontario Energy Board staff ("OEB staff") also participated in the settlement conference. The role adopted by OEB staff is set out in page 5 of the Practice Direction. Although OEB staff is not a party to this Settlement Proposal, as noted in the Practice Direction, OEB staff who did participate in the settlement conference are bound by the same confidentiality requirements that apply to the Parties to the proceeding.

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This document is called a "Settlement Proposal" because it is a proposal by the Parties to the Board to settle the issues in this proceeding. It is termed a proposal as between the Parties and the Board. However, as between the Parties, and subject only to the Board's approval of this Settlement Proposal, this document is intended to be a legal agreement, creating mutual obligations, and binding and enforceable in accordance with its terms. As set forth later in this Preamble, this agreement is subject to a condition subsequent, that if it is not accepted by the Board in its entirety, then unless amended by the Parties it is null and void and of no further effect. In entering into this agreement, the Parties understand and agree that, pursuant to the Act, the Board has exclusive jurisdiction with respect to the interpretation and enforcement of the terms hereof.

The Parties acknowledge that this settlement proceeding is confidential in accordance with the Practice Direction. The Parties understand that confidentiality in that context does not have the same meaning as confidentiality in the Board's Practice Direction on Confidential Filings, and the rules of that latter document do not apply. Instead, in this settlement conference, and in this Agreement, the Parties have interpreted "confidential" to mean that the documents and other information provided during the course of the settlement proceeding, the discussion of each issue, the offers and counter-offers, and the negotiations leading to the settlement - or not - of each issue during the settlement conference are strictly privileged and without prejudice. None of the foregoing is admissible as evidence in this proceeding, or otherwise, with one exception, the need to resolve a subsequent dispute over the interpretation of any provision of this Settlement Proposal. Further, the Parties shall not disclose those documents or other information to persons who were not attendees at the settlement conference. However, the Parties agree that "attendees" is deemed to include, in this context, persons who were not physically in attendance at the settlement conference but were a) any persons or entities that the Parties engage to assist them with the settlement conference, and b) any persons or entities from whom they seek instructions with respect to the negotiations; in each case provided that any such persons or entities have agreed to be bound by the same confidentiality provisions.

This Settlement Proposal provides a brief description of each of the settled and partially settled issues, as applicable, together with references to the evidence. The Parties agree that references to the "evidence" in this Settlement Proposal shall, unless the context otherwise requires, include (a) additional information included by the Parties in this Settlement Proposal, and (b) the Appendices to this document. The supporting Parties for each settled and partially settled issue, as applicable, agree that the evidence in respect of that settled or partially settled issue, as applicable, is sufficient in the context of the overall settlement to support the proposed settlement, and the sum of the evidence in this proceeding provides an appropriate evidentiary record to support acceptance by the Board of this Settlement Proposal.

There are Appendices to this Settlement Proposal which provide further support for the proposed settlement. The Parties acknowledge that the Appendices were prepared by Thunder Bay Hydro. While the Intervenors have reviewed the Appendices, the Intervenors are relying on the accuracy of the underlying evidence in entering into this Settlement Proposal.

Outlined below are the final positions of the Parties following the settlement conference. For ease of reference, this Settlement Proposal follows the format of the final approved issues list for the Application attached to the Board's Decision on the Issues List.

The Parties are pleased to advise the Board that they have reached a partial agreement with respect to the settlement of some of the issues in this proceeding. Specifically:

"Complete Settlement" means an issue for which complete settlement was reached by all Parties, and if this Settlement Proposal is accepted by the Board, the Parties will not adduce any evidence or argument during the hearing in respect of these issues.	settled:
"Partial Settlement" means an issue for which there is partial settlement, as Thunder Bay Hydro and the Intervenors who take any position on the issue were able to agree on some, but not all, aspects of the particular issue. If this Settlement Proposal is accepted by the Board, the Parties who take any position on the issue will only adduce evidence and argument during the hearing on those portions of the issues not addressed in this Settlement Proposal.	1
"No Settlement" means an issue for which no settlement was reached. Thunder Bay Hydro and the Intervenors who take a position on the issue will adduce evidence and/or argument at the hearing on the issue.	# issues not settled:

If applicable, a Party who is noted as taking no position on an issue may or may not have participated in the discussion on that particular issue, but in either case such Party takes no position a) on the settlement reached, and b) on the sufficiency of the evidence filed to date.

According to the Practice Direction (p. 3), the Parties must consider whether a Settlement Proposal should include an appropriate adjustment mechanism for any settled issue that may be affected by external factors. These adjustments are specifically set out in the text of the Settlement Proposal.

The Parties have settled the issues as a package, and none of the parts of this Settlement Proposal are severable. If the Board does not accept this Settlement Proposal in its entirety, then there is no settlement (unless the Parties agree in writing that any part(s) of this Settlement Proposal that the Board does accept may continue as a valid settlement without inclusion of any part(s) that the Board does not accept).

In the event that the Board directs the Parties to make reasonable efforts to revise the Settlement Proposal under s. 39.04 of the Rules of Practice and Procedure, the Parties agree to use reasonable efforts to discuss any potential revisions, but no Party will be obligated to accept any proposed revision. The Parties agree that all of the Parties who took on a position on a particular issue must agree with any revised Settlement Proposal as it relates to that issue prior to its resubmission to the Board.

Thunder Bay Hydro Electricity Distribution Inc. EB-2016-0105 Revised Settlement Proposal Page **7** of **35**

Unless stated otherwise, the settlement of any particular issue in this proceeding and the positions of the Parties in this Settlement Proposal are without prejudice to the rights of Parties to raise the same issue and/or to take any position thereon in any other proceeding, whether or not Thunder Bay Hydro is a party to such proceeding.

Thunder Bay Hydro Electricity Distribution Inc. EB-2016-0105 Revised Settlement Proposal Page **8** of **35**

Summary

In reaching this partial settlement, the Parties have been guided by the Filing Requirements for 2017 rates, the approved issues list attached as Schedule A to the Board's Decision on the Issues List dated February 10, 2017, and the Report of the Board titled Renewed Regulatory Framework for Electricity Distributors: A Performance-Based Approach dated October 18, 2012 ("RRFE").

This Settlement Proposal reflects a partial settlement of the issues in this proceeding. The Parties believe that, if accepted by the Board as the Parties request, this Settlement Proposal will narrow the scope of issues to be heard during a hearing. The following is a description of the key areas of disagreement among the Parties that would go to hearing if this Settlement Proposal is accepted:

- 1. Capital (Issues 1.1 and 2.1): The Parties are not in agreement that the Applicant's proposed capital expenditures for the test year are appropriate.
- 2. OM&A (Issues 1.2 and 2.1): The Parties are not in agreement that the Applicant's proposed OM&A expenditures for the test year are appropriate.
- 3. Cost of Capital (Issue 2.1): The Parties are not in agreement that the Applicant's cost of capital for the test year is appropriate.

Other issues, such as depreciation and working capital, remain outstanding only because they are dependent on those three main unsettled issues.

Subject to the foregoing, and based on the evidence and rationale provided below, the parties agree that the partial settlement set out in this Settlement Proposal is appropriate and recommend its acceptance by the Board.

1. CAPITAL AND OM&A

- 1.1 Is the level of planned capital expenditures appropriate and is the rationale for planning and pacing choices appropriate and adequately explained, giving due consideration to
 - customer feedback and preferences;
 - productivity;
 - · compatibility with historical expenditures;
 - compatibility with applicable benchmarks;
 - reliability and service quality;
 - impact on distribution rates;
 - trade-offs with OM&A spending;
 - government-mandated obligations;
 - the objectives of Thunder Bay Hydro and its customers; and
 - the five-year Distribution System Plan.

No Settlement: The Parties are not in agreement on this issue.

- 1.2 Is the level of planned OM&A expenditures appropriate and is the rationale for planning choices appropriate and adequately explained, giving due consideration to:
 - customer feedback and preferences;
 - productivity;
 - compatibility with historical expenditures;
 - compatibility with applicable benchmarks;
 - reliability and service quality;
 - impact on distribution rates;
 - trade-offs with capital spending;
 - government-mandated obligations; and
 - the objectives of Thunder Bay Hydro and its customers.

No Settlement: The Parties are not in agreement on this issue.

2. REVENUE REQUIREMENT

2.1 Are all elements of the revenue requirement reasonable, and have they been appropriately determined in accordance with OEB policies and practices?

Partial Settlement: Subject to the resolution of issues 1.1 and 1.2 and the adjustment to other revenues identified in issue 4.2 below, the parties agree that the other revenues, working capital allowance, depreciation, and PILs have been appropriately determined in accordance with OEB policies and practices.

Specifically, and as further discussed in issue 4.2 below, Thunder Bay Hydro has recorded \$38,363 of Other Revenue representing one-fifth of the forecasted gain on sale of the existing properties listed in issue 4.2 in the test year (\$195,000 less the original cost of the properties of \$3,186 or a \$191,814 gain).

The following table provides reconciliation of other revenue accounts from the original application to the updated settlement proposal.

Other Revenue	Original Application Revenue Offsets	IR Adjustments	Interrogatories	Settlement Adjustment	Updated Revenue Offsets
Account				T	
4080-2-SSS Revenue	(148,000)	0	(148,000)	0	(148,000)
4082-RS Rev	(23,100)	0	(23,100)	0	(23,100)
4084-Serv Tx Requests	(400)	0	(400)	0	(400)
4205-Interdepartmental Rents	0	0	0	0	0
4210-Rent from Electric Property	(499,404)	0	(499,404)	0	(499,404)
4215-Other Utility Operating Income	0	0	0	0	0
4220-Other Electric Revenues	(16,569)	0	(16,569)	0	(16,569)
4225-Late Payment Charges	(380,777)	0	(380,777)	0	(380,777)
4230-Sales of Water and Water Power	0	0	0	0	0
4235-Miscellaneous Service Revenues	(398,500)	0	(398,500)	0	(398,500)
4355-Gain on Disposition of Utility and Other Property	(4,000)	(191,814)	(195,814)	153,451	(42,363)
4360-Loss on Disposition of Utility and Other Property	335,217	(156,060)	179,157	(3,186)	175,971
4362-Loss on Retirement	0	0	0	0	0
4375-Revenues from Non-Utility Operations	(240,082)	0	(240,082)	0	(240,082)
4380-Expenses of Non-Utility Operations	219,876	0	219,876	0	219,876
4385-Non Rate-Regulated Utility Rental Income	0	0		0	0
4390-Miscellaneous Non-Operating Income	(14,712)	0	(14,712)	0	(14,712)
4405-Interest and Dividend Income	(77,000)	0	(77,000)	0	(77,000)
Revenue Offsets	(1,247,451)	(347,874)	(1,595,325)	150,265	(1,445,060)

Thunder Bay Hydro Electricity Distribution Inc. EB-2016-0105 Revised Settlement Proposal Page **12** of **35**

The parties are not in agreement that the planned capital or OM&A expenditures in the test year are appropriate (as noted in issues 1.1 and 1.2 above). In addition, the Parties are not in agreement that the Applicant's proposed cost of capital in the test year is appropriate.

Evidence:

Application: Exhibit 2, 2.4.1, Page 30 Interogatories: 2.0-VECC-4; 2-Staff-47; 2-Staff-48; 2-Staff-49; 4-Staff-56; 4-Ampco-24; 4-SEC-29; 4-VECC-32; 4-Staff-61; 4-Staff-62; 4-Staff-63; 4-Staff-64; 4-Staff-67

Table 2-1: Rate Base Calculations from 2.0-VECC-4

Supporting Parties: All

2.2 Has the revenue requirement been accurately determined based on these elements?

No Settlement: Due to the outstanding matters in issue 2.1, the Parties are not in agreement on this issue.

3. LOAD FORECAST, COST ALLOCATION AND RATE DESIGN

3.1 Are the proposed load and customer forecast, loss factors, CDM adjustments and resulting billing determinants appropriate, and, to the extent applicable, are they an appropriate reflection of the energy and demand requirements of Thunder Bay Hydro's customers?

Complete Settlement: Subject to the updates noted below, the parties agree that for the purposes of settlement the proposed load forecast and customer forecast, loss factors, CDM adjustments and resulting billing determinates are appropriate, and to the extent applicable, are an appropriate reflection of the energy and demand requirements of Thunder Bay Hydro's customers.

Thunder Bay Hydro has agreed to update its load forecast model to include 2016 actual customers/connections values. Settlement Table #1 provides the update load forecast reflecting the 2016 actual customers/connections and has been attached as Appendix A.

The Load Forecast has also been updated to reflect the settlement issue 3.3 (below). Specifically, Thunder Bay Hydro has removed from its load forecast the originally proposed Large Use customer rate classification, and allocated this customer into the General Service > 1,000 kW rate classification.

Settlement Table #1 Load Forecast.

	able #1 load Forecast	
Customer Class Pre Settlement	Settlement Adiustment	Updated Load Forecast
Dated Feb 13/201	7	
Residential		-
Customers 45,48		
kWh 336,114,68	0	336,114,686
General Service < 50 kW		-
Customers 4,67	· 19	4,655
kWh 142,697,20	07 0	142,697,207
General Service > 50 - 999 kW		
Customers 40	57 -7	460
kWh 262,887,88	S 1 0	262,887,881
kW 656,9	95 0	656,995
General Service > 1,000 kW - 4,999kW		General Service > 1.000 kW
Customers	21 1	22
kWh 134,982,41	7 34,349,934	169,332,352
kW 383,10	02 83,823	466,924
Large User		
Customers	1 .1	. 0
kWh 36,734,78	- 36,734,784	4 O
kW 74,26	58 -74,268	<u>0</u>
Streetlights		
Connections 13,2	50 24	13,274
kWh 8,2n,94	17,620	8,290,565
kW 23,54	40 50	23,590
Sentinel Lights		
	71 -7	10.
kWh 112,76		,
kW 30	08 -13	295
Unmetered Scattered Load		
	-11	
kWh 2,203,93	5 - 55,813	2,148,122
Total Above		
Customers/Connections 64,52	4 18	3 64,542
kWh 924,006,62	-2.427,7n	921,578,850
kW from applicable classes 1,138,2	212 9,592	1,147,804

Settlement Table #2 CDM Adjusted Forecast

Settlement Table #2A and #2B provide the CDM impact on billed kWh and kW per customer class.

For the Residential, General Service < 50 kW and General Service > 50 to 999 kW classes the forecast billed amount for 2016 and 2017 is based on a rate class regression analysis and the analysis used a CDM activity variable in all cases. The CDM activity variable assumes the full year results up to the end of 2015 which suggests the 2015 full year results have been included in the forecast resulting from the regression analysis and should not be included in the manual CDM adjustment for these classes. This means using the half year rule for first year programs, the 2017 CDM manual adjustment will be a full year for 2016 programs plus and one half of the full year savings from 2017 programs.

For the General Service > 1,000 kW class, the 2015 savings did not occur until the very end of 2015 and these savings were not included in the 2015 actual results which were used to forecast the billed amount for this class. As a result, the CDM manual adjustment for 2017 will be the full year 2015 and 2016 savings plus one half of the 2017 results.

For the Street Lighting class, the 2015 savings did occur over 2015 which suggest one half of the 2015 results were included in billed forecast for this class. This means the CDM manual adjustment for 2017, will be the one half of 2015 savings plus a full year of 2016 savings plus one half of the 2017 results

Settlen	nent Table #2A CDM Adjusted	Forecast kWh	
Customer Class	Billed Load Forecast No CDM Adjustment (kWh)	Billed Load Forecast after CDM Adjustment (kWh)	CDM Adjustment (kWh)
Residential	338,048,686	336,114,686	-1,934,000
General Service < 50 kW	143,397,406	142,697,207	-700,199
General Service > 50 - 999 kW	265,484,982	262,887,881	-2,597,102
General Service > 1,000 kW	196,122,889	169,332,352	-26,790,537
Large User	0	0	0
Streetlights	9,589,156	8,290,565	-1,298,590
Sentinel Lights	108,037	108,037	0
Unmetered Scattered Load	2,148,122	2,148,122	0
Tota	954,899,278	921,578,850	-33,320,427

Settlement Table #2B CDM Adjusted Forecast - kW										
Customer Class	Billed Load Forecast No CDM Adjustment (kWh)	Billed Load Forecast after CDM Adjustment (kWh)	CDM Adjustment (kWh)							
General Service > 50 - 999 kW	663,485	656,995	-6,491							
General Service > 1,000 kW	540,798	466,924	-73,873							
Large User	0	0	0							
Streetlights	27,285	23,590	-3,695							
Sentinel Lights	295	295	0							
Total	1,231,863	1,147,804	-84,059							

Settlement Table #3

Settlement Table #3 provides the details supporting the 2017 LRAMVA threshold amount outlined in Settlement Table #4.

Settlement Table #3 2017 LRAMVA										
Residential General Service General Service 50- General Service 1,000 kW Street			Streetlights	Total						
2,457,558	509,178	2,627,750	13,005,537	752,180	19,352,203					
949,700	440,906	1,701,194	13,685,000	615,000	17,391,800					
1,968,600	518,585	1,791,815	200,000	615,000	5,094,000					
5,375,858	1,468,669	6,120,759	26,890,537	1,982,180	41,838,003					
	Residential 2,457,558 949,700 1,968,600	Residential General Service < 50 kW 2,457,558 509,178 949,700 440,906 1,968,600 518,585	Residential General Service < 50 kW General Service > 50- 339 kW 2,457,558 509,178 2,627,750 949,700 440,906 1,701,194 1,968,600 518,585 1,791,815	Residential General Service < 50 kW General Service > 50- 393 kW General Service > 1,000 kW 2,457,558 509,178 2,627,750 13,005,537 949,700 440,906 1,701,194 13,685,000 1,968,600 518,585 1,791,815 200,000	Residential General Service < 50 kW General Service > 393 kW General Service > 1,000 kW Streetlights 2,457,558 509,178 2,627,750 13,005,537 752,180 949,700 440,906 1,701,194 13,685,000 615,000 1,968,600 518,585 1,791,815 200,000 615,000					

Settlement Table #4

Settlement Table #4: 2017 Expected Savings for LRAM Variance Account provides the kWh and kW values to be used as the threshold in LRAM Variance Account calculation from 2017 and onwards until the next rebasing cost of service application occurs

Settlem	ent Table #4 - 2017 I	Expected Savings f	or LRAM Varian	ce Account		
	Residential	General Service < 50 kW	General Service > 50 - 999 kW	General Service > 1,000 kW	Streetlights	Total
2017 Test - kWh	5,375,858	1,468,669	6,120,759	26,890,537	1,982,180	41,838,003
2017 Test - kW Annual			15,297	74,149	5,640	95,086
2017 Test - kW Monthly			1275	6179	470	7,924

Evidence:

Application: Exhibit 3, 3.2 and 3.3

Interrogatories: 1-Staff-22; 3-VECC-18; 3-VECC-48; 3-VECC-49; 7-VECC-50; 7-

VECC-51

3.2 Is the proposed cost allocation methodology, and are the allocations and revenue-to-cost ratios, appropriate?

Complete Settlement: For the purposes of settlement, the parties agree that the proposed cost allocation methodology and the allocations and revenue-to-cost ratios are appropriate. Thunder Bay Hydro agrees to conduct a review of the weighting factors used in its cost allocation methodology, which review must be filed as part of its next cost of service rate application.

Evidence:

Application: Exhibit 7

Interrogatories: 7-VECC-42; 7-VECC-43; 7-VECC-44; 7-VECC-51

Supporting Parties: All

3.3 Are Thunder Bay Hydro's proposals for rate design including the introduction of a Large Use class appropriate?

Complete Settlement: For the purposes of settlement, the parties agree that the monthly service charge for the General Service < 50 kW, General Service > 50 to 999 kW and General Service > 1,000 kW rate classes would be set at the current rate since the current rate is above the value for Minimum System with PLCC Adjustment (Ceiling Fixed Charge From Cost Allocation Model). This is presented in Settlement Table #5 below.

Settlement Table #5 – Proposed Rate Design

RATE DESIGN	2016 Rate	Pre Settlement	Settlement Adjustment	Settlement Proposal
Residential				
Monthly Service Charge	\$15.24	\$20.84	(\$0.55)	\$20.29
Distribution Volumetric Rate per kWh	\$0.0097	\$0.0078	(\$0.00)	\$0.0076
General Service < 50 kW				
Monthly Service Charge	\$27.14	\$32.83	(\$5.69)	\$27.14
Distribution Volumetric Rate per kWh	\$0.0140	\$0.0169	\$0.00	\$0.0184
General Service 50 - 999kW				
Monthly Service Charge	\$204.24	\$247.95	(\$43.71)	\$204.24
Distribution Volumetric Rate per kW	\$2.5993	\$3.1361	\$0.32	\$3.4562
General Service 1,000- 4,999 kW				General Service > 1,000 kW
Monthly Service Charge	\$2,922.18	\$3,506.77	(\$584.59)	\$2,922.18
Distribution Volumetric Rate per kW	\$2.3087	\$2.6534	\$0.25	\$2.9038
Large User				General Service > 1,000 kW
Monthly Service Charge	\$0.00	\$4,796.27	(\$4,796.27)	\$0.00
Distribution Volumetric Rate per kW	\$0.0000	\$2.8045	(\$2.80)	\$0.0000
Streetlight				
Monthly Service Charge	\$1.16	\$1.17	(\$0.04)	\$1.13
Distribution Volumetric Rate per kW	\$7.0017	\$7.0863	(\$0.24)	\$6.8498
Unmetered Scattered Load				
Monthly Service Charge	\$7.05	\$8.53	(\$0.23)	\$8.30
Distribution Volumetric Rate per kWh	\$0.0103	\$0.0125	(\$0.00)	\$0.0121
Sentinel				
Monthly Service Charge	\$6.96	\$8.42	(\$0.22)	\$8.20
Distribution Volumetric Rate per kW	\$5.5838	\$6.7548	(\$0.18)	\$6.5762

For the purposes of settlement, and in consideration of the settlement of the other issues as outlined in this settlement proposal, Thunder Bay Hydro has agreed to withdraw its request to introduce a Large Use rate class and to instead move the single affected customer into the General Service >1.000kW class.

The parties agree that this is appropriate giving due consideration to:

- The considerable positive impact the single affected customer has on the local economy, including as a significant employer in the Thunder Bay area.
- The historical demand data (2003-2015) for the single affected customer demonstrates that this customer is clearly a marginal case. Their demand is sometimes above and sometimes below the 5,000kW threshold. Specifically, between 2004 until early 2011, this customer's demand hovered at below the 5,000kW level. In February 2011, the customer's demand first exceeded 5,000 kW, however demand fell below the threshold the very next month. Between 2011 and 2014, the customer has hovered at or around the 5,000 kW level. More recently, in 2015 and 2016, the customer's demand was hovering at or around the 6,000 kW level.
- There has been no change to the underlying cost to service the customer to justify a change in rate class.
- Economic changes or changes in US trade policy could reasonably be expected to lead to a reduction in this customer's demand below the 5,000kW threshold in the future.
- The calculated monthly bill impacts for the majority of customer classes, including the customer that was originally proposed to move into the Large Use rate class, are improved by moving the customer into the General Service >1,000kW class. This is shown in Settlement Table 6 below.
 - o The detail is further shown in Settlement Tables 7 (leave the customer in the General Service >1,000kW class) and 8 (move the customer into the Large Use class) below.
 - o Additional detail is shown in Settlement Tables 7A, 7B, 8A, and 8B.

The majority of Thunder Bay Hydro's customers are worse-off if this customer is moved into a Large Use rate class.

See Appendix B for a detailed discussion of the factors and additional evidence to explain the benefits that flow to these other customer classes.

- The consultations performed by Thunder Bay Hydro and AMPCO with the specific customer in question indicated a strong preference to minimize bill impacts. As shown in Settlement Table 6 below, this will be best achieved by putting the customer in the General Service >1,000kW service classification.
- Thunder Bay Hydro performed consultations with the other customer

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representatives that were party to the settlement conference. These customer representatives expressed different views on this settlement:

- AMPCO: The industrial customer benefits from this proposal with lower overall rates, as do all other customers in the GS > 1,000 kW service classification (see Table 6 below).
- SEC: SEC represents schools many of which are in the GS 50-999kW class. To these customers, a small increase in rates is worth it for the positive impact on a significant employer in the City.
- VECC: The settlement is a win-win from the perspective of residential consumers. They benefit from lower rates (see Table 6 below) and they support a major employer and economic engine in the City.

<u>Settlement Table 6 – Comparative Monthly Bill Impact</u>

Settlement Table 6 presents the total monthly bill impacts to all customers when the large user rate class is included, as compared to when the proposed large use customer is excluded and the proposed customer is allocated back into the General Service > 1,000 kW rate classification.

It is noted that there is a small increase to the General Service 50 to 999 kW, and Street Lighting Service Classification. However, both rate classes still experience a net monthly dollar decrease from current rates.

Including Large Use	Excluding Large Use	Total Monthly Increase / (Decrease) of Removing Request for Large Use Rate Class
\$ 2.24	\$ 2.12	\$ (0.12)
\$ 7.49	\$ 7.26	\$ (0.23)
\$ (57.10)	\$ (53.00)	\$ 4.11
\$ (1,004.63)	\$ (1,136.21)	\$ (131.59)
\$ (439.56)	\$ (1,635.05)	\$ (1,195.50)
\$ 0.46	\$ 0.41	\$ (0.06)
\$ 1.49	\$ 1.46	\$ (0.03)
\$ (2.62)	\$ (2.61)	\$ 0.02
	\$ 2.24 \$ 7.49 \$ (57.10) \$ (1,004.63) \$ (439.56) \$ 0.46 \$ 1.49	\$ 7.49 \$ 7.26 \$ (57.10) \$ (53.00) \$ (1,004.63) \$ (1,136.21) \$ (439.56) \$ (1,635.05) \$ 0.46 \$ 0.41

Additional Detail – Excluding the Large User Class:

Settlement Table #7 Bill Impact Summary – Excluding Large User Class

RATE CLASSES / CATEGORIES		Sub-Total										Total		
(eg: Residential TOU, Residential Retailer)	Units		ΑΑ		-10-	В			C			A+B+C		
reg. residence 100, residence rotalery	500,000,000	1.7	5	- %	100	\$	- 5	- 1	\$	%		\$	%	
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kvvn	.5	3.60	16.0%	5	2.98	11.7%	5	1.23	3.7%	5	2.12	1.54%	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	KWh	5	9,80	17.8%	5	8.96	14.6%	5	4.70	5.7%	5	7.26	1,94%	
GENERAL SERVICE 50 to 999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	KW	5	99.20	19.4%	S	(16.95)	-2.6%	5	(115.27)	-10.5%	\$	(53.00)	-0.65%	
GENERAL SERVICE × 1,000 kW SERVICE CLASSIFICATION - Non-RPP (Other)	KW	5	859.53	13.4%	5	(405.64)	-5.2%	5	(1,765.86)	-12.5%	\$	(1,136.21)	-1.22%	
Proposed Large Use Class A Customer as General Service ~ 1,000 kW Service Classification - Non-RPP (Other)	KVY	5	3,525.25	20.5%	5	1,279.27	8.6%	5	(4,299.50)	-10.5%	S	(1,635.05)	-1.7%	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	- 5	1.86	16.5%	\$	0.88	6.6%	5	0.01	0.0%	\$	0.41	0.52%	
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	XW	5	2.05	16.3%	5	1.89	15.4%	5	1.24	8.2%	5	1.46	5.79%	
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	KW	S	(0.36)	-4.4%	\$	(1.71)	-18.4%	Ś	(2.35)	-19.1%	- 5	(2.61)	-12.29%	

<u>Settlement Figure 7A – Bill Impacts to General Service > 1,000kW Service</u>

Settlement Figure 7A presents the bill impact to the average customer in the General Service > 1,000 kW when the customer in question is moved into this class using the settlement adjusted Load Forecast Model, DVA Model, Cost Allocation, and Rate Design.

	L SERVICE > 1,000 kW SER	VICE CLASSIFICATION	-									
RPP / Non-RPP: Non-RPF												
Consumption	531,688 kWh											
Demand	1,509 kW											
	s Factor 1.0239 Primary Metered											
		Current Of	B-Approved	_			Marine Mr.	Proposed			Impa	ict
		Rate (\$)	Volume		Charge (\$)		Rate (\$)	Volume		Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$	2,922.18		\$	2,922.18		2,922.18	1	\$	2,922.18		0.00%
Distribution Volumetric Rate	\$	2.3087	1509.01		3,483.85		2.9038	1509.01	5	4,381.86		25.78%
Fixed Rate Riders	5		1509.01	\$		\$		1509.01	S			i.
Volumetric Rate Riders	\$	*	1509.01	5	6.406.03	-\$	0.0255	1509.01	5	(38 48)		13,42%
Sub-Total A (excluding pass through) Line Losses on Cost of Power	T _S			5	6,406.03	8	-		S	7,265.56		13.42%
Total Deferral/Variance Account Rate	s	0.9135	1,509	5	1.378.48	20	0,7353	1,509	s	(1,109.58)	Si carumbilin	-180.49%
Riders		0.0100	1,000		1,010.40		Carrier State of the State of t					-190,900
GA Rate Riders			12.744			\$	0.0023	531,688	5	1,222.88	1,222.88	
Low Voltage Service Charge Smart Meter Entity Charge (if applicable)	s		1,509	5	-				5			
Sub-Total B - Distribution (includes	- '	-	- 1				-		-		100000000	-
Sub-Total A)				\$	7,784.51				5	7,378.87	(405.64)	-5.21%
RTSR - Network	\$	2.4136	1,509	5	3,642.15	\$	1.9141	1,509	S	2,888.40	(753.75)	-20.70%
RTSR - Connection and/or Line and Transformation Connection	s	1.7988	1,509	s	2,714.41	5	1.3969	1,509	s	2,107.94	(606.47)	-22.34%
Sub-Total C - Delivery (including Sub- Total B)				\$	14,141.07				\$	12,375.20	(1,765.86)	-12.49%
Wholesale Market Service Charge (WMSC)	\$	0.0036	544,395	\$	1,959.82	s	0.0038	547,107	5	1,969.58	9.76	0.50%
Rural and Remote Rate Protection	1/2	100,000,000	G-000000	4	1201000	20	15720000	renertota	-	2/01/22/2		10000000
(RRRP)	s	0.0013	544,395	S	707.71	S	0.0021	547,107	5	1,148.92	441.21	62 34%
Standard Supply Service Charge	35		- 8	9								
Debt Retirement Charge (DRC)	[\$	0.0070	531,687.66	S	3,721.81	\$	0.0070	531,688	S	3,721.81		0.00%
Ontario Electricity Support Program	\$	0.0011	544,395	\$	598.83	\$	0.0011	547,107	\$	601.82	2.98	0.50%
(OESP) Average IESO Wholesale Market Price	TS.	0.1130	544,395	s	61,516.63	8	0.1130	547,107	s	61,823.05	306.41	0.50%
Total Bill on Average IESO Wholesale Market F	Price			\$	82,645.88				\$	81,640.39		-1.22%
HST	SINDOO	13%		\$	10,743.96		13%		\$	10,613.25		-1.22%
Total Bill on Average IESO Wholesale Market I	Price			5	93,389.85				5	92,253,64	(1,136.21)	-1.22%

<u>Settlement Figure 7B – Bill Impacts to the Proposed Large User in General Service >1,000 kW Service Classification</u>

Settlement Figure 7B presents the bill impact to the specific customer in question when they are moved into the General Service >1,000kW class using the settlement adjusted Load Forecast Model, DVA Model, Cost Allocation, and Rate Design.

Customer Class: Propose RPP / Non-RPP: Non-RPP	(Other)	The same of the same of	SWITTERS SON	the same of the same of the	-			4						
Consumption	3,061,232	kWh												
Demand	6,189	kW												
Current Loss Factor	1.0239	Primary Metered			CLA	SS A								
Proposed/Approved Loss Factor	1.0290				CUS	STOMER A	SA	GS > 1000						
			Current Of	EB-Approved					Proposed				Impa	ct
		Rate (S)		Volume	- 18	Charge (\$)		Rate (\$)	Volume		Charge (\$)	sc	hange	% Change
Monthly Service Charge Distribution Volumetric Rate Fixed Rate Riders		\$ \$	2,922.18 2,3087	6189 1	\$		\$ \$ \$	2,922.18 2.9038	6189 1	5	2,922 18 17,971.62	S	3,683.07	0.00% 25.78%
Volumetric Rate Riders		\$		6189	\$		-\$	0.0255	6189	5	(157.82)		(157.82)	- Contract
Sub-Total A (excluding pass through)					\$	17,210.72		-	3.600	5	20,735.98		3,525.25	20,489
Line Losses on Cost of Power Total Deferral/Variance Account Rate Riders		-s	0.3724	6,189	5	(2,304.78)	-\$	0.7353	6,189	5		s	(2,245.99)	97.459
GA Rate Riders Low Voltage Service Charge Smart Meter Entity Charge (if applicable)		s s			5		2		6,189	S		S S	1	
Sub-Total B - Distribution (includes Sub-Total A)					\$	14,905.94				\$	16,185.21	s	1,279.27	8,585
RTSR - Network RTSR - Connection and/or Line and Transformation Connection		s	2.4136 1.7988	6,189 6,189	5	14,937.77		1.9141	6,189 6,189	S		s s	(3,091.41)	-20.70% -22.34%
Sub-Total C - Delivery (including Sub-Total B)			100 to 10	DEATES.	\$	40,976.48		0.000	2,800	5	36,676.99	\$	(4,299.50)	-10,495
Wholesale Market Service Charge (WMSC)		s	0.0036	3,134,395	5	11,283.82	s	0.0036	3,150,008	s	11,340.03	s	56.20	0.50%
Rural and Remote Rate Protection (RRRP)		s	0.0013	3,134,395	\$	4,074.71	\$	0.0021	3,150,008	\$	6,615.02	\$	2,540.30	62.34%
Standard Supply Service Charge Debt Retirement Charge (DRC) Ontario Electricity Support Program		s	0.0070	3,030,620		21,214.34		0.0070	3,030,620	s	21,214.34	s		0.00%
(OESP)		\$	0.0011	3,134,395	5	3,447.83	\$	0.0011	3,150,008	\$	3,465.01	\$	17.17	0.50%
Transformer Allowance Average IESO Wholesale Market Price		-s s	0.6000 0.0153	6,189 3,134,395	S	(3,713.40) 47,956.25	\$	0.6000	6,189 3,150,008	S	(3,713.40) 48,195.12		238.87	0.00%
Total Bill on Average IESO Wholesale Market HST Total Bill on Average IESO Wholesale Market			13%		\$	125,240.05 16,281.21 141,521.25		13%		\$ 5	123,793.09 16,093.10 139,886,20	S	(1,446.95) (188.10) (1,635.05)	-1.169 -1.169 -1.169

Additional Detail - Including the Large User Class:

Settlement Table #8 - Bill Impact Summary – Including Large User Class

		Sub-Total										Total	
RATE CLASSES / CATEGORIES	Units	A				B			C			A+B+C	
(eg: Residential TOU, Residential Retailer)	121000	111	\$	*	2.7	\$	- 5		5	- %	100	\$	%
RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$	3.63	16.1%	. 5	3.08	12.1%	5	1.34	4.0%	5	2.24	1.63%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	kWh	S	9.80	17,8%	5	9.14	14.8%	\$	4.89	5.9%	5	7.49	2.00%
GENERAL SERVICE 50 to 999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	6	91.01	17.8%	- 5	(25.10)	-3.9%	- 5	(123.42)	-11.2%	\$	(57.10)	-0.70%
GENERAL SERVICE 1,000 to 4,999 kW SERVICE CLASSIFICATION - Non-RPP (Other)	KW	5	853.64	13,3%	\$	(340.15)	-4.4%	s	(1,700.37)	-12.0%	\$	(1,004.63)	-1.08%
LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	8	4,793.57	27.9%	8	67.04	0.4%	- 5	(5,511.71)	-13.5%	\$	(439.56)	-0.11%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	\$	1.87	16.6%	5	0.92	7.0%	5	0.06	0.3%	\$	0.46	0.60%
SENTINEL LIGHTING SERVICE CLASSIFICATION - RPP	KW.	5	2.07	26.5%		1.91	15.6%	- 5	1.27	8.3%	5	1.49	5.89%
STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	MAA	6	(0.38)	A 6%	-6	(1.72)	-10.6%	6	(2.32)	19.3%	6	/2.625	-13.20%

<u>Settlement Figure 8A – Bill Impacts to General Service >1,000 – 4,999 kW Service with Large Use Classification</u>

Settlement Figure 8A presents the bill impact to the average customer in the General Service >1,000-4,999 kW class when the specific customer is moved into the Large Use service class using the settlement adjusted Load Forecast Model, DVA Model, Cost Allocation, and Rate Design.

Customer Class: GENERAL SERV RPP / Non-RPP: Non-RPP (Other									2			
Consumption	531,688 kWh											
Demand	1,509 kW											
Current Loss Factor	1.0239											
Proposed/Approved Loss Factor	1.0298											
		Current	OEB-Approved				N-10-10-	Proposed			Impa	ct
		Rate (\$)	Volume		Charge (S)		Rate (S)	Volume		Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$	2,922,18	- 1	S	2.922.18	\$	2,922.18	1	5	2,922 18 5		0.009
Distribution Volumetric Rate	s	2.3087	1509.01	5	3,483.85	5	2,9019	1509.01	15	4.379.00		25.699
Fixed Rate Riders	\$	(4)	1	S		\$		1	S			
Volumetric Rate Riders	s	. 1	1509.01	S	- 2	-5	0.0279	1509.01	S	(42.10) 5	(42.10)	
Sub-Total A (excluding pass through)				\$	6,406.03				S	7,259.07	853.04	13.329
Line Lasses on Cost of Power	\$	193	- 1	\$	*.	\$	- 2	+	\$	- 5		00000
Total Deferral/Variance Account Rate	s	0.9135	1,509	5	1 378 48		0.6876	1,509	S	(1,037.60)	(2.416.08)	-175.279
Riders	*	0.2130	1,504		1,370.40	-		12 Mercher				-170.203
GA Rate Riders						\$	0.0023	531,688		1,222.88	1,222.88	
Low Voltage Service Charge	\$		1,509			0	6		S	- (5		
Smart Meter Entity Charge (if applicable)	\$		1	\$		\$	*:	1	5			
Sub-Total B - Distribution (includes				\$	7,784.51				\$	7,444.36	(340.15)	-4.371
Sub-Total A) RTSR - Network	s	2,4136	1.509	5	3.642.15		1,9141	1.509	-	2.888.40	(753.75)	-20.709
RTSR - Connection and/or Line and	3	2.4136	1,509	, ,	3,642.13	2	1.3141	1,309	2	2,000.40	(100.10)	-20.709
Transformation Connection	s	1.7988	1,509	S	2,714.41	\$	1.3969	1,509	5	2,107.94	(606.47)	-22.349
Sub-Total C - Delivery (including Sub- Total B)				\$	14,141.07				s	12,440.69	(1,700.37)	-12.02
Wholesale Market Service Charge		1500000	200				_	LATERATURE.		-		
(WMSC)	\$	0.0036	544,395	5	1,959.82	\$	0.0036	547,532	5	1,971.12 5	11.29	0.589
Rural and Remote Rate Protection	2.5	855000	S January (-		-	Section 1	Victoria (National)	-	CONTRACTOR OF THE PARTY OF THE		
(RRRP)	\$	0.0013	544,395	5	707.71	\$	0.0021	547,532	5	1,149.82	442.10	62.479
Standard Supply Service Charge												
Debt Retirement Charge (DRC)	s	0.0070	531,688	S	3.721.B1	\$	0.0070	531,688	5	3.721.81		0.009
Ontario Electricity Support Program	ř.											
(OESP)	5	0.0011	544,395	2	598.83	100	0.0011	547,532	2	602.29	3.45	0.589
Average IESO Wholesale Market Price	s	0.1130	544,395	5	61,516.63	\$	0.1130	547,532	\$	61,871.11	354.48	0.589
Total Bill on Average IESO Wholesale Market Price				s	82,645.88				s	81,756.83		-1.081
HST		13%	- 3	S	10.743.96		13%		S	10.628 39 5		-1 089
Total Bill on Average IESO Wholesale Market Price				3	93,389.85				\$	92,385.22 3	(1,004.63)	-1.081

<u>Settlement Figure 8B – Proposed Large User Bill Impacts</u>

Settlement Figure 8B presents the bill impact to the specific customer in question when they remain in the Large Use service classification using the settlement adjusted Load Forecast Model, DVA Model, Cost Allocation, and Rate Design.

Customer Class: LARGE USE SERV RPP / Non-RPP: Non-RPP (Other)		77.50.00								
Consumption 3, Demand Current Loss Factor Proposed/Approved Loss Factor	6,189 kW 1.0239 1.0045			LASS A CUSTO Primary Metered						
		Current	OEB-Approved		1		Proposed		Impa	ct
		Rate (\$)	Volume	Charge (\$)		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	\$	2,922.18	1		18 5	4,789.60	- 1	\$ 4,789.60		63.91
Distribution Volumetric Rate	\$	2.3087	6188.99	5 14,288	52 \$	2.8006	6188.99	\$ 17,332.89	\$ 3,044,36	21.31
Fixed Rate Riders	5			5	. 5		1	5 -	5 -	
Volumetric Rate Riders	\$		6188.99		-\$	0.0191	6188.99			
Sub-Total A (excluding pass through)	-			\$ 17,210				\$ 22,004.28		27.85
Line Losses on Cost of Power Total Deferral/Variance Account Rate Riders	-s	0.3724		\$ 5 (2,304	78) -\$	1.1361	6,189	S (7.031.31)	s (4,726,53)	205.08
GA Rate Riders	1	A.V.C. W. T. C.	2004 BCS 1			- 1	3,061,232	•		
Low Voltage Service Charge	8		6 189	•		-		s	rs .	,
Smart Meter Entity Charge (if applicable)	s		11			- 6		\$	\$	
Sub-Total B - Distribution (includes Sub-Total A)				s 14,905	701				\$ 67.04	0.45
RTSR - Network	5	2,4136	6,189	5 14,937	75 \$	1,9141	6,189	\$ 11,846,35	5 (3,091.40)	-20.70
RTSR - Connection and/or Line and Transformation Connection	s	1.7988	6,189	5 11,132	76 \$	1.3969	6,189	\$ 8,645.40	5 (2,487.36)	-22.34
Sub-Total C - Delivery (including Sub- Total B)				\$ 40,976	.42			\$ 35,464.71	\$ (5,511.71)	-13.45
Wholesale Market Service Charge (WMSC)	s	0.0036	3,134,395	\$ 11,283	82 \$	0.0036	3,075,008	\$ 11,070.03	\$ (213.80)	-1.89
Rural and Remote Rate Protection (RRRP)	\$	0.0013	3,134,395	\$ 4,074	71 \$	0.0021	3,075,008	\$ 6,457.52	\$ 2,382.80	58.48
Standard Supply Service Charge							2 054 000			
Debt Retirement Charge (DRC) Ontario Electricity Support Program	s	0,0070	3,030,619.70			0.0070	3,061,232			1.01
(OESP)	s	0.0011	3,134,395	3,447	84 5	0.0011	3,075,008	\$ 3,382.51	\$ (65.33)	-1.59
Transformer Allowance	-5	0.6000	6,189	s (3.713	39)				s 3,713.39	-100.00
Average IESO Wholesale Market Price	\$	0.0153	3,134,395	\$ 47,956	25 \$	0,0153	3,075,008	\$ 47,047.62	\$ (908.63)	-1.89
Total Bill on Average IESO Wholesale Market Price				\$ 125,239				\$ 124,851.00		-0.31
HST		13%		\$ 16,281		13%	1	\$ 16,230.63		-0.31
Total Bill on Average IESO Wholesale Market Price				5 141,521	19			\$ 141,081.63	\$ (439.56)	-0.31

Evidence:

Application: Exhibit 7; 7.2.1; Exhibit 8

Interrogatories: 7-Staff-70; 7-VECC-42; 7-VECC-43; 8-AMPCO-25, 8-AMPCO-26; 8-

VECC-45; 8.0-SEC-33

3.4 Are the proposed Retail Transmission Service Rates appropriate?

Complete Settlement: For the purposes of settlement, the parties agree that the proposed Retail Transmission Service Rates are appropriate.

Evidence:

Application: Exhibit 8, 8.4 Interrogatories: 1-Staff-2

4. ACCOUNTING

4.1 Have all impacts of any changes in accounting standards, policies, estimates and adjustments been properly identified and recorded, and is the rate-making treatment of each of these impacts appropriate?

Complete Settlement: Subject to the resolution of the unsettled issues within Issue 2.1, the parties agree that the impact of any changes in accounting standards, policies, estimates and adjustments have been properly identified and recorded, and the ratemaking treatment of those impacts are appropriate.

Evidence:

Application: Exhibit 1; 1.6.6; Exhibit 2; 2.6.9; Exhibit 4; 4.1.3; Table 4-10; Exhibit 9;

9.5.8; 9.5.9

Interrogatories: 4.0-SEC-29; 4.0-SEC-30; 9-Staff-73; 9-Staff-76;

4.2 Are Thunder Bay Hydro's proposals for deferral and variance accounts, including the balances in the existing accounts and their disposition, requests for new accounts and the continuation of existing accounts, appropriate?

Complete Settlement: Subject to the one correction and the change noted below, the parties agree that Thunder Bay Hydro's proposals for deferral and variance accounts, including the balances in the existing accounts and their disposition, requests for new accounts and the continuation of existing accounts, are appropriate.

Specifically, and as discussed in issue 2.1 above, Thunder Bay Hydro has recorded \$38,363 of Other Revenue representing one-fifth of the forecasted gain on sale of the existing properties listed below in the test year (\$195,000 less the original cost of the properties of \$3,186 or a \$191,814 gain). Thunder Bay Hydro is also requesting a new variance account to capture the difference between the revenue deficiency impact between the forecasted and actual after tax net gain (or loss) from the sale of real properties during the term of the IRM period immediately following this rebasing application including the following existing properties:

493 John Street, Thunder Bay, Ontario

832 McPherson Avenue, Thunder Bay, Ontario

1000 Mary St. W., Thunder Bay, Ontario

137 Brock Street, Thunder Bay, Ontario

To set up the variance account Thunder Bay Hydro plans to record the revenue deficiency impact of \$157,235 (\$191,814 gain less \$34,579 representing the gross up of the \$25,415 PILs cost on the capital gain) and compare this balance with actual net after tax gain or loss on the sale of all real properties during the term of the IRM period immediately following this rebasing application. Thunder Bay Hydro is proposing to record carrying charges in this Variance account.

Thunder Bay Hydro has attached to this settlement its proposed accounting order as Appendix C.

The parties support the other revenue treatment and the creation of the variance account described above.

Correction: Thunder Bay Hydro recorded \$563,692 (revised to \$562,690 with the change in the Cost of Capital parameters) in OEB account 1575: IFRS-CGAAP Transitional PP&E Amounts. The majority of this amount represented the recognition of a constructive obligation for the decommissioning of station assets. The amount further

included a return on rate base component of \$26,415 (revised to \$25,413 with the change in the Cost of Capital parameters). Thunder Bay Hydro will transfer this balance of \$562,690 less the \$25,413 (as a Rate of Return component will not be included) to Property, Plant and Equipment and will amortize this asset over the life of associated assets (17 years or \$33,099/year). This asset will be excluded from Rate Base for purposes of calculating Rate of Return.

Evidence:

Application: Exhibit 9; 9, 5.8; 9.6

Interrogatories: 2-Staff-48; 4.0-SEC-28; 9.0-SEC-34; 9.0 VECC-46; 9.0-VECC-47; 9-

Staff-71; 9-Staff-75; 9-Staff-76; 9-Staff-77

Appendix A – Thunder Bay Hydro Load Forecast Settlement – CDM Adjusted

aao. Dayya.o zoaa	recast for 201	/ Kate App	lication									
	2006 Actual	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Weather Normal	2017 Weather Norma I
Billed kWh Before CDM	1,039,037,823	1,031,120,516	1,005,493,355	976,724,642	944,010,733	957,941,351	950,013,126	963,120,843	965,070,093	938,758,818	948,703,889	954,899,278
CDM Adjustme nt											22,077,527	33,320,42
Billed kWh After CDM	1,039,037,823	1,031,120,516	1,005,493,355	976,724,642	944,010,733	957,941,351	950,013,126	963,120,843	965,070,093	938,758,818	926,626,361	921,578,850
By Class												
Residential												
Customers	44.312	44.389	44.538	44.614	44,736	44.901	44.737	44.942	45.106	45.273	45,415	45,527
kWh	344.985.670	347.356.682	349,640,195	344,727,821	335.588.529	337.212.307	331.142.425	341.035.889	340.024.796	324.673.269	336.497.281	336.114.686
KWN	344,985,670	347,356,682	349,640,195	344,727,821	335,588,529	337,212,307	331,142,425	341,035,889	340,024,796	324,673,269	336,497,281	336,114,686
General Service ≰ 50 kW												
Customers	4,314	4,273	4,257	4,265	4,306	4,340	4,497	4,528	4,578	4,607	4,623	4,655
kWh	141,631,019	140,795,616	140,901,919	137,506,816	132,765,784	135,688,687	133,678,840	136,331,186	139,285,836	137,179,401	138,537,071	142,697,207
General Service ♦ 50 to 999 kW												
Customers	493	501	507	506	507	506	514	512	495	472	463	460
kW h	299,216,793	298,981,716	297,548,977	290,804,127	285,047,817	288,525,140	283,475,241	285,068,374	280,037,460	266,548,348	264, 176, 175	
kW	715,592	728,767	747,849	719,276	723,295	732,497	734,173	722,899	690,827	668,163	660,214	656,995
KVV	713,382	720,707	141,045	713,270	723,233	132,431	754,175	722,099	090,021	000,103	000,214	030,333
General Service ♦ 1000 kW												
Customers	18	19	19	21	20	19	19	21	21	22	22	22
kW h	241,350,662	230,921,503	204,491,830	189,989,955	177,283,842	183,178,133	188,531,681	187,992,826	193,164,947	198,507,739	176,274,852	
kW	675,435	626,041	572,083	530,289	516,956	504,571	517,092	510,032	512,109	535,702	486,068	466,924
Large User												
Customers	0	0	0	0	0	0	0	0	0	0	0	0
kW h	0	0	0	0	0	0	0	0	0	0	0	0
kW	0	0	0	0	0	0	0	0	0	0	0	0
Street Lighting												
Connections	12,962	12,976	13,135	13,039	13,170	13,091	13,172	13,095	13,148	13,197	13,246	13,274
kWh	9,862,693	10,907,926	10,834,527	11,591,322	11,241,250	11,244,632	11,062,692	10,555,414	10,310,975	9,533,361	8,884,824	8,290,565
kW	30,657	30,889	31,499	31,053	31,562	31,850	30,859	29,850	29,217	27,043	25,281	23,590
Sentinel Lighting												
Connections	164	153	150	158	167	148	167	171	172	171	164	164
kWh	134.611	125.582	122.983	129,618	136.868	121.136	141.784	144.894	146.313	112,765	108.037	108.037
kW	374	349	342	360	380	336	381	390	392	308	295	295
Unmetered Scattered Load												
Connections	428	435	457	459	469	470	470	466	462	451	440	440
kWh	1,856,376	2,031,491	1,952,923	1,974,984	1,946,641	1,971,315	1,980,463	1,992,260	2,099,765	2,203,935	2,148,122	2,148,122
Total of Above												
Customer/Connections	62,690	62,745	63.063	63.061	63.374	63,474	63,576	63,735	63.983	64.192	64,372	64.542
kWh		1,031,120,516		976.724.642	944,010,733	957,941,351	950,013,126	963,120,843	65.070.093		926,626,361	
kW from applicable classes	1,422,058	1,386,046	1,351,773	1,280,978	1,272,193	1,269,254	1,282,505	1,263,172	1,232,544	1,231,215	1,171,858	1,147,804
Total from Model												
Customer/Connections	62,690	62,745	63,063	63,061	63,374	63,474	63,576	63,735	63,983	64,192	64,372	64,542
kWh		1,031,120,516		976,724,642	944,010,733	957,941,351	950,013,126	963,120,843	65,070,093		926,626,361	
kW from applicable classes	1,422,058	1,386,046	1,351,773	1,280,978	1,272,193	1,269,254	1,282,505	1,263,172	1,232,544	1,231,215	1,171,858	1,147,804
Check should all be zero												
Customer/Connections	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
kWh												
kWh kW from applicable classes	0	0	0	0	0	0	0	0	0	0	0	0

Appendix B- Large Use Class versus GS>1,000kW class

This Appendix B explains the sources of the beneficial rate impacts shown in Table 6 of the settlement that accrue to Thunder Bay Hydro's customers arising as a direct result of (1) not creating the proposed Large User rate class; and (2) instead moving the single customer into the GS > 1000 kW class.

1. Loss Factor

Under the Board's loss factor calculation methodology, all customers except the one directly affected customer would benefit from having a lower loss factor if the affected customer remains in the GS>1000 class. The directly affected customer would have a higher loss factor, which is likely more reflective of the actual losses associated with delivery to that customer, and to all other customers.

If Thunder Bay Hydro introduces a new Large User rate class, Thunder Bay Hydro is required by Appendix 2-R instructions to incorporate the default loss factor applicable to Large Users of 1.0045. Under the Board-stipulated calculation method, the calculation of the remaining loss factor for all other classes excludes the Large User class, with an assumed loss factor of 1%. Using the required methodology, the calculation of the Loss Factor that Thunder Bay Hydro charges all of the other customers goes up to 1.0402.

By contrast, leaving the customer in the GS>1,000kW class means that the overall loss factor for the utility applies to all customers including this customer. All customers will thus have a loss factor of 1.0394 (or 0.0008 less than if the Large Use class is introduced).

If the customer remains in the Large Use class, the loss factor for Thunder Bay Hydro would be as follows:

Appendix 2-R Loss Factors

			H	listorical Years	8		E Vans Average
		2011	2012	2013	2014	2015	5-Year Average
	Losses Within Distributor's System	1					
A(1)	"Wholesale" kWh delivered to distributor (higher value)	996,079,734	987,455,833	1,001,934,686	1,002,261,340	976,172,477	992,780,814
A(2)	"Wholesale" kWh delivered to distributor (lower value)	991,445,327	982,419,688	997,113,842	997,719,889	971,956,909	988,131,131
В	Portion of "Wholesale" kWh delivered to distributor for its Large Use Customer(s)	25,274,078	27,457,812	30,229,413	30,693,561	37,102,132	30,151,399
С	Net "Wholesale" kWh delivered to distributor = A(2) - B	966,171,249	954,961,877	966,884,429	967,026,328	934,854,777	957,979,732
D	"Retail" kWh delivered by distributor	957,941,351	950,013,126	963,120,843	965,070,093	938,758,818	954,980,846
E	Portion of "Retail" kWh delivered by distributor to its Large Use Customer(s)	25,023,840	27,185,952	29,930,112	30,389,664	36,734,784	29,852,870
F	Net "Retail" kWh delivered by distributor = D - E	932,917,512	922,827,174	933,190,731	934,680,429	902,024,034	925,127,976
G	Loss Factor in Distributor's system = C / F	1.0356	1.0348	1.0361	1.0346	1.0364	1.0355
	Losses Upstream of Distributor's S	ystem					
Н	Supply Facilities Loss Factor	1.0045	1.0045	1.0045	1.0045	1.0045	1.0045
	Total Losses						
I .	Total Loss Factor = G x H	1.0403	1.0395	1.0408	1.0393	1.0411	1.0402

If the customer is in the GS>1,000kW class, the loss factor for Thunder Bay Hydro would be as follows:

		Α	ppendix 2	-R			
		L	oss Facto	rs			
				This needs to b	e zoomed in to	see 2013 and	2014
			ŀ	listorical Years	5		5-Year Average
		2011	2012	2013	2014	2015	0-1cai Average
	Losses Within Distributor's System						
A(1)	"Wholesale" kWh delivered to distributor (higher value)	996,079,734	987,455,833	1,001,934,686	1,002,261,340	976,172,477	992,780,814
A(2)	"Wholesale" kWh delivered to distributor (lower value)	991,445,327	982,419,688	997,113,842	997,719,889	971,956,909	988,131,131
В	Portion of "Wholesale" kWh delivered to distributor for its Large Use Customer(s)	-	-	-	-	-	-
С	Net "Wholesale" kWh delivered to distributor = A(2) - B	991,445,327	982,419,688	997,113,842	997,719,889	971,956,909	988,131,131
D	"Retail" kWh delivered by distributor	957,941,351	950,013,126	963,120,843	965,070,093	938,758,818	954,980,846
E	Portion of "Retail" kWh delivered by distributor to its Large Use Customer(s)						-
F	Net "Retail" kWh delivered by distributor = D - E	957,941,351	950,013,126	963,120,843	965,070,093	938,758,818	954,980,846
G	Loss Factor in Distributor's system = C / F	1.0350	1.0341	1.0353	1.0338	1.0354	1.0347
	Losses Upstream of Distributor's S	ystem					
Н	Supply Facilities Loss Factor	1.0045	1.0045	1.0045	1.0045	1.0045	1.0045
	Total Losses						
I	Total Loss Factor = G x H	1.0396	1.0388	1.0400	1.0385	1.0400	1.0394

2. Load Forecast

The demand component of the Load Forecast with the customer in the GS>1,000 kW class is 15,334 kW greater than the sum of the forecasts for the GS > 1,000 kW and Large Use classes, and the volume component is 348,353 kWh lower than the sum of the forecasts for GS>1000 kW and Large Use classes. This is because:

- With Large Use Class: The 2017 forecast usage for the Large Use Class is equal to the 2015 actual usage. This is a function of the load forecasting methodology for non-weather sensitive loads, when it is applied to a customer class that only has 1 customer. Because 2017 forecast consumption is the same as 2015 actual, Thunder Bay Hydro used the actual 2015 kW/kWh factor (rather than a 10 year historical average) to arrive at a demand forecast for the large use class in 2017.
- Without Large Use Class: By contrast, when this customer is added in the GS>1000 kW class, the 2017 forecast usage for this class is not equal to 2015 actual usage. Because of this, Thunder Bay Hydro used the ten year average kW/kWh factor to arrive at a demand forecast, which is consistent with the methodology utilized for the GS > 50 kW, GS > 1000 kW, and SEL classes. The same CDM adjustment is applied in both scenarios.

Each of the pre-filed and proposed load forecasts are based on the assumptions used. The assumptions used for the newly proposed forecast rely on a longer data set, so more thoroughly include the trends of all affected customers. Both pre-filed and proposed load forecasts are accurate based on their assumptions. The Parties agree that the new proposed forecast (with no Large User class) is likely to reflect the actual billing determinants in 2017 for all GS > 1000kW customers. In addition, the Parties agree that this new load forecast is better than the original in that it results in lower rate impacts as discussed below.

The following table provides the supporting calculation for these differences.

				Without Large Use Class	
	With Large	e Use Class Fo	orecast	Forecast	Difference
	GS >			GS >	
	1000 kW	Large Use	Total	1000 kW	
2015 kWh Actual	161,772,954	36,734,784	198,507,739	198,507,739	
2015 Customers Actual	20.9	1.0	21.9	21.9	
2015 Usage Per Customer					
Actual	7,738,944	36,734,784	9,062,728	9,062,728	
2017 Customers Forecast	20.6	1.0	21.6	21.6	0.0
2017 Usage Per Customer					
Forecast	7,738,944	36,734,784		9,062,728	
2017 kWh Forecast	159,736,457	36,734,784	196,471,242	196,122,889	-348,353
CDM Adjustment	26,790,537	0	26,790,537	26,790,537	
2017 kWh Forecast After CDM	132,945,920	36,734,784	169,680,705	169,332,352	
Application and Settlement	Based on 10	Based on		Based on 10	
Proposal	Year Average	2015 Actual		Year Average	
kW/kWh Factor	0.2838%	0.2022%		0.2757%	
2017 kW Forecast	377,322	74,268	451,590	466,924	15,335

The difference causes rates to be lower if no Large User class is introduced since there are more volumetric units to recover distribution costs. The decline in kWh does not affect revenues, since it is not a billing determinant in this class. The increase in kW does affect revenues, and thus revenue per kW – the rate – has to decrease to keep revenues constant. No other classes are affected by this change in the load forecast.

If the customer remains in the Large Use class, the Load Forecast for Thunder Bay Hydro would be as follows:

Forecast Data For 2017	<u> Te</u> st Year Projection	
Sum of Quantity		
Class	Unit of Measure	2017 Test Year Normalized
Residential	# of Customers kWh	45,527 336,114,686
General Service < 50 kW	# of Customers kWh	4,655 142,697,207
General Service > 50 to 999 kW	# of Customers	460 kW 656,995 262,887,881
General Service> 1000 kW	# of Customers	21 kW 377,322 132,945,920
Large User	# of Customers	1 kW 74,268
Street Lighting	4 # of Connections	36,734,78 13,274
	kW kWh	23,590 8,290,565
Unmetered Scattered Load Sentinel Lighting	# of Connections kWh # of Connections	440 2,148,122 164
	kWh # of Customers	295 108,037
Total Check	kWh # of Cust/Con kW kWh	64,542 1,132,469 921,927,203

If the customer is in the GS>1,000kW class, the Load Forecast for Thunder Bay Hydro would be as follows:

Thunder Bay	Hydro	
Forecast Data For 2017	est Year Projection	1
Sum of Quantity		
Class	Unit of Measure	2017 Test Year Normalized
Residential	# of Customers	45,527
	kWh	336,114,686
General Service < 50 kW	# of Customers	4,655
	kWh	142,697,207
General Service > 50 to 999 kW	# of Customers	460
	kW	656,995
	kWh	262,887,881
General Service > 1000 kW	# of Customers	22
	kW	466,924
	kWh	169,332,352
Large User	# of Customers	0
	kW	0
	kWh	0
Street Lighting	# of Connections	13,274
	kW	23,590
	kWh	8,290,565
Unmetered Scattered Load	# of Connections	440
	kWh	2,148,122
Sentinel Lighting	# of Connections	164
	kW	295
	kWh	108,037
	# of Customers	
	kW	
	kWh	
Total Check	# of Cust/Con	64,542
	kW	1,147,804
	kWh	921,578,850

Thunder Bay Hydro Electricity Distribution Inc. EB-2016-0105 Revised Settlement Proposal Page **34** of **35**

3. Transformer Allowance

As a Large User, the customer would no longer benefit from the \$0.60 per kW transformer allowance that they currently received in the GS 1,000 – 4,999 kW class.

The reason for this is that, in the cost allocation model no line transformer costs are allocated to the Large Use class which means there are no transformer costs to credit a customer who owns their own transformer. However, there are line transformer costs allocated in the GS 1,000 – 4,999 kW class since there are customers in that class that use Thunder Bay Hydro's line transformers. As a result, the full costs are allocated to the remaining customer classes. Leaving the customer in the GS>1,000 kW class would spread those costs over a larger base; therefore, marginally benefitting all customer classes and the customer in question would continue to receive the \$0.60 per kW transformer allowance.

Appendix C- Accounting Order

Accounting Order

Thunder Bay Hydro Electricity Distribution Inc.

EB-2016-0105

Account 1508 Other Regulatory – Sub- Account Gains/ Losses from Sale of Non-Depreciable Property

Thunder Bay Hydro shall establish a new variance account 1508 Other Regulatory Assets – Sub-Account Gains/Losses from Sale of Non-Depreciable Property, effective January 1, 2017, to record the variance between the revenue deficiency impact of the actual and forecast after tax gains/losses from the sale of existing non-depreciable properties.

This account shall capture 100% of the variance between the forecasted and actual after tax net gains/losses on the sale of land including the forecasted properties at:

- 493 John Street, Thunder Bay, Ontario
- 832 McPherson Avenue, Thunder Bay, Ontario
- 1000 Mary St West, Thunder Bay, Ontario
- 137 Brock Street, Thunder Bay, Ontario

The forecast after-tax net gains on the sale of the listed properties are \$157,235. The actual after-tax net gain or loss from each of the listed properties, and any other non-depreciable property sold, will be calculated. If the cumulative amount any time during the period 2017-2021 exceeds the forecast amount, the excess, and any additional gains (net of PILs divided by 1 minus the tax rate or "grossed up" PILs impact) after that date, will be added to the account If, on December 31, 2021, the forecasted properties have all been sold and the cumulative after-tax gain/loss does not exceed the forecast amount, the net shortfall will be charged to the account. The variance account will attract carrying charges at the OEB prescribed interest rate and will be settled at the next Cost of Service filing by Thunder Bay Hydro in accordance with Ontario Energy Board policy.

The following is the sample journal entry.

To record the variance between the cumulative actual gains/losses on disposal and the forecasted gain during the COS period:

<u>Debit</u> <u>Credit</u>

Dr/Cr. Account 1508 – Gains/Losses From the Sale of Property

Dr/Cr. Account 4080-Distribution Revenue

\$XXX,XXX \$XXX,XXX