Exhibit: 1 Tab: 1

Tab: 1 Schedule: 1

Page: 1

Hydro 2000 Inc. INDEX

<u>Ex</u> . L - Adminis	<u>Tab</u>	<u>Schedule</u> Documents	Contents of Schedule
I - Adillilli	Suauve	<u>Documents</u>	
	1		<u>Administration</u>
		1	Index
		2	Application
		3	LDC's Distribution License
		4	Contact Information
		5	List of Specific Approvals Requested
		6	Draft Issues List
		7	Procedural Orders/Correspondence/Notices
		8	Accounting Orders
		9	List of non-compliance with USofA
		10	Map of LDC's Distribution System
		11	List of Neighboring Utilities
		12	Explanation of Any Host or Embedded Utilities
		13	Utility Organizational Chart
		14	Corporate Entities Relationships Chart
		15	Planned Changes in Corporate or Operational Structure
		16	Status of Board Directives
		17	Conditions of Service/Service Charges
		18	Changes in Conditions of Service
		19	List of Witnesses and their Curriculum Vitae
	2		<u>Overview</u>
		1	Summary of the Application
		2	Budget Directives (Capital and Operating)
		3	Changes in Methodology
		4	Schedule of Overall Revenue Deficiency/Sufficiency
		5	Numerical Schedules Detailing the Causes of the
			Deficiency/Sufficiency

Exhibit: 1

Tab: 1 Schedule: 1

Page: 2

3	<u>Finance</u>
1	Financial Statement (2006)
2	Pro Forma Statements (2007 and 2008)
3	Reconciliation between Financial Statements and Financial Results
	Filed
4	Proposed Accounting Treatment
5	Information on Parent and subsidiaries

Exhibit: 1 Tab: 1

Schedule: 1

Page: 3

<u>Ex</u> .	<u>Tab</u>	<u>Schedule</u>	Contents of Schedule
	2 – Rate Bas	<u> </u>	
		1	<u>Overview</u>
		1	Rate Base Overview
		2	Rate Base Summary Table
		3	Variance Analysis on Rate Base Table
		2	Gross Assets – Property, Plant and Equipment Accumulated
			<u>Depreciation</u>
		1	Continuity Statements
		2	Gross Assets Table
		3	Materiality Analysis on Gross Assets
		4	Accumulated Depreciation Table
		5	Materiality Analysis on Accumulated Depreciation
		3	Capital Budget
		1	Capital Budget by Project
		2	Materiality Analysis on Capital Additions
		3	System Expansions
		4	Capitalization Policy
		4	Allowance for Working Capital
		1	Working Capital Allowance calculations by account

Exhibit: 1 Tab: 1

Schedule: 1

Page: 4

Ex. <u>Tab</u> <u>Schedule</u> 3 - Operating Revenue	Contents of Schedule
1 1	Overview of Operation Revenue
2	Summary of Operating Revenue Table
3	Variance Analysis on Operating Revenue
2	Throughput Revenue
1	Weather Normalized Forecasting Methodology
2	Normalized Volume Forecast Table
3	Variance Analysis on Normalized Volume Forecast
4	Customer Count Forecast Table
5	Variance Analysis on Customer Count Forecast
6	Historical Average Consumption
3	Other Revenue
1	Other Distribution Revenue
2	Materiality Analysis on Other Distribution Revenue
3	Rate of Return on Other Distribution Revenue
4	Distribution Revenue Data
4	Revenue Sharing
1	Description of Revenue Sharing

Exhibit: 1 Tab: 1

Tab: 1 Schedule: 1

Page: 5

<u>Ex</u> .	<u>Tab</u> 4 - Operating	Sched Costs	ule Conte	ents of Schedule
		1		Overview
			1	Overview of Operating Costs
			2	Summary of Operating Costs Table
		2		OM&A Costs
			1	OM&A Costs Table
			2	Variance Analysis on OM&A Costs Table
			3	Materiality Analysis on OM&A Costs
			4	Shared Services
			5	Corporate Cost Allocation
			6	Purchase of Services
			7	Employee Description
			8	Depreciation, Amortization and Depletion
			9	Loss Adjustment Factor Calculation
			10	Materiality Analysis on Distribution Losses
		3		Income Tax, Large Corporation Tax
			1	Tax Calculations
			2	Interest Expense
			3	Capital Cost Allowance (CCA)

Exhibit: 1

Tab: 1 Schedule: 1

Page: 6

<u>Ех</u> .	<u>Tab</u>	<u>Scł</u>	<u>nedule</u>	Contents of Schedule
5	<u> - Deferral</u>	And \	/ariance	<u>Accounts</u>
		1	1	Description of Deferral and Variance Accounts
			2	Calculation of Balances by Account
			3	Method of Recovery

Exhibit: 1

Tab: 1 Schedule: 1

Page: 7

<u>Ex</u> .	<u>Tab</u>	Sch	<u>edule</u>	Contents of Schedule
	<u>6 - Cost of</u>	Capita	I and R	ate of Return
		1	1	Overview
			2	Capital Structure
			3	Cost of Debt
			4	Return on Equity

Exhibit: 1

Tab: 1 Schedule: 1

Page: 8

Hydro 2000 Inc.

Ex. Tab Schedule Contents of Schedule
7 - Calculation of Revenue Deficiency or Surplus

1 1 Determination of Net Utility Income and Calculation of Revenue Deficiency or Surplus

Exhibit: 1

Tab: 1 Schedule: 1

Page: 9

<u>Ex</u> .	<u>Tab</u>	<u>Sche</u>	<u>edule</u>	Contents of Schedule
<u>8 –</u>	Cost Allo	cation	<u>1</u>	
		1	1	Cost Allocation Overview
			2	Summary of Results and Proposed Changes

Exhibit: 1 Tab: 1

Schedule: 1

Page: 10

<u>Ex</u> .	<u>Tab</u>	<u>Schedule</u>	Contents of Schedule
<u>9 - R</u>	ate Des	<u>ign</u>	
		1 1	Rate Design Overview
		2	Rate Mitigation
		3	Existing Rate Classes
		4	Existing Rate Schedule
		5	Proposed Rate Classes if different than existing
		6	Proposed Rate Schedule
		7	Summary of Proposed Rate Schedule
		8	Reconciliation of Rate Class Revenue to total Revenue Requirement
		9	Rate Impacts
		10	Proposed Changes to Terms and Conditions of Service

File Number: 2008-0001

Exhibit: 1 Tab: 1 Schedule: 2 Page: 1

ONTARIO ENERGY BOARD

IN THE MATTER OF the Ontario Energy Board Act, 1998, being Schedule B to the Energy Competition Act, 1998, S.O. 1998, c.15;

AND IN THE MATTER OF an Application by Hydro 2000 Inc. to the Ontario Energy Board for an Order or Orders approving or fixing just and reasonable rates and other service charges for the distribution of electricity as of May 1, 2008.

APPLICATION

The Applicant is Hydro 2000 Inc. The Applicant is an Ontario corporation with its office in the village of Alfred. The Applicant carries on the business of distributing electricity within the limits of former villages of Alfred and Plantagenet.

The Applicant hereby applies to the Ontario Energy Board (the "OEB") pursuant to section 78 of the Ontario Energy Board Act, 1998 for approval of its proposed distribution rates and other charges, effective May 1, 2008.

Except where specifically identified in the Application, the Applicant followed Chapter 2 of the Filing Requirements for Transmission and Distribution Applications dated November 14, 2006 (the "Filing Requirements") in order to prepare this application

The Schedule of Rates and Charges proposed in this Application is identified in Exhibit 9; Tab 1; Schedule 6 attached to this Summary.

The Applicant requests that the OEB make its Rate Order effective May 1, 2008 in accordance with the Filing Requirements.

The Applicant submits the proposed distribution rates contained in this Application are just and reasonable on the following grounds:

- (i) the proposed rates for the distribution of electricity have been prepared in accordance with the Filing Requirements;
- (ii) the proposed adjusted rates are necessary to meet the Applicant's Market Based Rate of Return and PILs requirements;
- (iii) there are no impacts to any of the customer classes or consumption level subgroups that are so significant as to warrant the deferral of any adjustments being requested by the Applicant; and
- (iv) other grounds as may be set out in the material accompanying this Application Summary.

Hydro 2000 Inc.

File Number: 2008-0001

Exhibit: 1 Tab: 1 Schedule: 2

Page: 2

The Applicant applies for an Order or Orders approving the proposed distribution rates and other charges set out in this Application to be effective May 1, 2008, or as soon as possible thereafter. The Applicant submits these rates and charges are just and reasonable pursuant to section 78 of the Ontario Energy Board Act, 1998 being Schedule B to the Energy Competition Act, 1998, S.O. 1998, c.15,

The address of service for the Applicant is: Hydro 2000 Inc

265, St-Philippe Street

P.O. Box 370 Alfred, On K0B 1A0

DATED at Alfred, Ontario, this 7th day of September, 2007.

The Applicant
Rene C. Beaulne
Manager
("Signature")

Hydro 2000 Inc. File Number: 2008-0001

Exhibit: 1

Tab: 1 Schedule: 2

Page: 3

Hydro 2000 Inc.

Electricity Distribution Licence



Electricity Distribution Licence

ED-2002-0542

Hydro 2000 Inc.

Valid Until November 12, 2023

Mark C. Garner

Secretary

Ontario Energy Board

Date of Issuance: November 13, 2003

Ontario Energy Board

P.O. Box 2319

2300 Yonge Street

26th. Floor

Toronto, ON M4P 1E4

Commission de l'Énergie de l'Ontario

C.P. 2319

2300, rue Yonge

26e étage

Toronto ON M4P 1E4

1 **Definitions** 2 In this Licence: "Accounting Procedures Handbook" means the handbook, approved by the Board which specifies the accounting records, accounting principles and accounting separation standards to be followed by the Licensee; "Act" means the Ontario Energy Board Act, 1998, S.O. 1998, c. 15, Schedule B; "Affiliate Relationships Code for Electricity Distributors and Transmitters" means the code, approved by the Board which, among other things, establishes the standards and conditions for the interaction between electricity distributors or transmitters and their respective affiliated companies; "distribution services" means services related to the distribution of electricity and the services the Board has required distributors to carry out, including the sales of electricity to consumers under section 29 of the Act, for which a charge or rate has been established in the Rate Order; "Distribution System Code" means the code approved by the Board which, among other things, establishes the obligations of the distributor with respect to the services and terms of service to be offered to customers and retailers and provides minimum, technical operating standards of distribution systems; 8 "Electricity Act" means the *Electricity Act, 1998*, S.O. 1998, c. 15, Schedule A; 9 "Licensee" means: Hydro 2000 Inc.; 10 "Market Rules" means the rules made under section 32 of the Electricity Act; 11 "Performance Standards" means the performance targets for the distribution and connection activities of the Licensee as established by the Board in accordance with section 83 of the Act; "Rate Order" means an Order or Orders of the Board establishing rates the Licensee is permitted to charge; 13 "regulation" means a regulation made under the Act or the Electricity Act;

4	Obli	gation to Comply with Legislation, Regulations and Market Rules	25					
4.1	ulatio	The Licensee shall comply with all applicable provisions of the Act and the Electricity Act and regulations under these Acts except where the Licensee has been exempted from such compliance by regulation.						
4.2	The 1	Licensee shall comply with all applicable Market Rules.	27					
5	Obli	Obligation to Comply with Codes						
5.1	appro	The Licensee shall at all times comply with the following Codes (collectively the "Codes") approved by the Board, except where the Licensee has been specifically exempted from such compliance by the Board. Any exemptions granted to the licensee are set out in Schedule 3 of this Licence. The following Codes apply to this Licence:						
	a)	the Affiliate Relationships Code for Electricity Distributors and Transmitters;	30					
	b)	the Distribution System Code;	31					
	c)	the Retail Settlement Code; and	32					
	d)	the Standard Supply Service Code.	33					
5.2	The I	Licensee shall:	34					
	a)	make a copy of the Codes available for inspection by members of the public at its head office and regional offices during normal business hours; and	35					
	b)	provide a copy of the Codes to any person who requests it. The Licensee may impose a fair and reasonable charge for the cost of providing copies.	36					
6	Oblig	gation to Provide Non-discriminatory Access	37					
6.1	gener	The Licensee shall, upon the request of a consumer, generator or retailer, provide such consumer, generator or retailer with access to the Licensee's distribution system and shall convey electricity on behalf of such consumer, generator or retailer in accordance with the terms of this Licence.						
7	Oblig	gation to Connect	39					
7.1	The I	The Licensee shall connect a building to its distribution system if:						

41 a) the building lies along any of the lines of the distributor's distribution system; and 42 b) the owner, occupant or other person in charge of the building requests the connection in writing. 43 7.2 The Licensee shall make an offer to connect a building to its distribution system if: 44 a) the building is within the Licensee's service area as described in Schedule 1; and 45 b) the owner, occupant or other person in charge of the building requests the connection in writing. 46 7.3 The terms of such connection or offer to connect shall be fair and reasonable and made in accordance with the Distribution System Code, and the Licensee's Rate Order as approved by the Board. 7.4 The Licensee shall not refuse to connect or refuse to make an offer to connect unless it is permitted to do so by the Act or a regulation or any Codes to which the Licensee is obligated to comply with as a condition of this Licence. 48 8 **Obligation to Sell Electricity** 49 8.1 The Licensee shall fulfill its obligation under section 29 of the Electricity Act to sell electricity in accordance with the requirements established in the Standard Supply Service Code, the Retail Settlement Code and the Licensee's Rate Order as approved by the Board. 50 9 **Obligation to Maintain System Integrity** 51 9.1 The Licensee shall maintain its distribution system in accordance with the standards established in the Distribution System Code and Market Rules, and have regard to any other recognized industry operating or planning standards adopted by the Board. 52 10 **Market Power Mitigation Rebates** 53 10.1 The Licensee shall comply with the pass through of Ontario Power Generation rebate conditions set

out in Appendix A of this Licence.

54

11 **Distribution Rates** 55 11.1 The Licensee shall not charge for connection to the distribution system, the distribution of electricity or the retailing of electricity to meet its obligation under section 29 of the Electricity Act except in accordance with a Rate Order of the Board. 56 12 Separation of Business Activities 57 The Licensee shall keep financial records associated with distributing electricity separate from its 12.1 financial records associated with transmitting electricity or other activities in accordance with the Accounting Procedures Handbook and as otherwise required by the Board. 58 13 **Expansion of Distribution System** 59 13.1 The Licensee shall not construct, expand or reinforce an electricity distribution system or make an interconnection except in accordance with the Act and Regulations, the Distribution System Code and applicable provisions of the Market Rules. 60 13.2 In order to ensure and maintain system integrity or reliable and adequate capacity and supply of electricity, the Board may order the Licensee to expand or reinforce its distribution system in accordance with Market Rules and the Distribution System Code, or in such a manner as the Board may determine. 61 14 Provision of Information to the Board 62 The Licensee shall maintain records of and provide, in the manner and form determined by the 14.1 Board, such information as the Board may require from time to time. 63 Without limiting the generality of condition 14.1 the Licensee shall notify the Board of any material 14.2 change in circumstances that adversely affects or is likely to adversely affect the business, operations or assets of the Licensee as soon as practicable, but in any event no more than twenty (20) days past the date upon which such change occurs. 64 15 **Restrictions on Provision of Information** 65 15.1 The Licensee shall not use information regarding a consumer, retailer, wholesaler or generator obtained for one purpose for any other purpose without the written consent of the consumer, retailer, wholesaler or generator. 66 15.2 The Licensee shall not disclose information regarding a consumer, retailer, wholesaler or generator to any other party without the written consent of the consumer, retailer, wholesaler or generator, except where such information is required to be disclosed:

67

to comply with any legislative or regulatory requirements, including the conditions of this a) Licence; 68 b) for billing, settlement or market operations purposes; 69 for law enforcement purposes; or c) 70 to a debt collection agency for the processing of past due accounts of the consumer, retailer, d) wholesaler or generator. 71 15.3 The Licensee may disclose information regarding consumers, retailers, wholesalers or generators where the information has been sufficiently aggregated such that their particular information cannot reasonably be identified. 72 15.4 The Licensee shall inform consumers, retailers, wholesalers and generators of the conditions under which their information may be released to a third party without their consent. 73 If the Licensee discloses information under this section, the Licensee shall ensure that the informa-15.5 tion provided will not be used for any other purpose except the purpose for which it was disclosed. 74 16 **Customer Complaint and Dispute Resolution** 75 16.1 The Licensee shall: 76 have a process for resolving disputes with customers that deals with disputes in a fair, reaa) sonable and timely manner; 77 b) publish information which will make its customers aware of and help them to use its dispute resolution process; 78 make a copy of the dispute resolution process available for inspection by members of the c) public at each of the Licensee's premises during normal business hours; 79 give or send free of charge a copy of the process to any person who reasonably requests it; d) and 80 e) subscribe to and refer unresolved complaints to an independent third party complaints resolution service provider selected by the Board. This condition will become effective on a date to be determined by the Board. The Board will provide reasonable notice to the Licensee of the date this condition becomes effective.

17	Term (of Licence	81				
17.1		icence shall take effect on November 12, 2003 and expire on November 11, 2023. The term Licence may be extended by the Board.	82				
18	Fees a	nd Assessments	83				
18.1	The Li	censee shall pay all fees charged and amounts assessed by the Board.	84				
19	Comm	unication	85				
19.1		censee shall designate a person that will act as a primary contact with the Board on matters to this Licence. The Licensee shall notify the Board promptly should the contact details	86				
19.2	All off	icial communication relating to this Licence shall be in writing.	87				
19.3 All written communication is to be regar the addressee:		itten communication is to be regarded as having been given by the sender and received by dressee:	88				
	a)	when delivered in person to the addressee by hand, by registered mail or by courier;	89				
	b)	ten (10) business days after the date of posting if the communication is sent by regular mail; and	90				
	c)	when received by facsimile transmission by the addressee, according to the sender's transmission report.	91				
20	Copies of the Licence						
20.1	The Li	The Licensee shall:					
	a)	make a copy of this Licence available for inspection by members of the public at its head office and regional offices during normal business hours; and	94				
	b)	provide a copy of the Licence to any person who requests it. The Licensee may impose a fair and reasonable charge for the cost of providing copies.	95				

SCHEDULE 1 DEFINITION OF DISTRIBUTION SERVICE AREA

96

97

This Schedule specifies the area in which the Licensee is authorized to distribute and sell electricity in accordance with condition 8.1 of this Licence.

98

1. The former Village of Alfred as of December 31, 1996, as described in Schedule A of By-Law 1388 of the Corporation of the United Counties of Prescott and Russell, dated October 18, 1951.

99

2. The former Village of Plantagenet as of December 31, 1996, as described in Schedule A of the Ontario Municipal Board Order N-2361-61 as amended, dated November 6, 1963.

SCHEDULE 2 PROVISION OF STANDARD SUPPLY SERVICE

101

100

This Schedule specifies the manner in which the Licensee is authorized to retail electricity for the purposes of fulfilling its obligation under section 29 of the Electricity Act.

102

The Licensee is authorized to retail electricity directly to consumers within its service area in accordance with condition 8.1 of this Licence, any applicable exemptions to this Licence, and at the rates set out in the Rate Orders.

SCHEDULE 3 LIST OF CODE EXEMPTIONS

103

104

This Schedule specifies any specific Code requirements from which the Licensee has been exempted.

105

The Licensee is exempt from the requirements of section 2.5.3 of the Standard Supply Service Code with respect to the price for small volume/residential consumers, subject to the Licensee offering an equal billing plan as described in its application for exemption from Fixed Reference Price, and meeting all other undertakings and material representations contained in the application and the materials filed in connection with it.

106 APPENDIX A MARKET POWER MITIGATION REBATES 107 **Definitions and Interpretation** 108 In this Licence, 109 "embedded distributor" means a distributor who is not a market participant and to whom a host distributor distributes electricity; 110 "embedded generator" means a generator who is not a market participant and whose generation facility is connected to a distribution system of a distributor, but does not include a generator who consumes more electricity than it generates; 111 "host distributor" means a distributor who is a market participant and who distributes electricity to another distributor who is not a market participant. 112 In this Licence, a reference to the payment of a rebate amount by the IMO includes interim payments made by the IMO. 113 2 **Information Given to IMO** 114 Prior to the payment of a rebate amount by the IMO to a distributor, the distributor shall provide a the IMO, in the form specified by the IMO and before the expiry of the period specified by the IMO, with information in respect of the volumes of electricity withdrawn by the distributor from the IMO-controlled grid during the rebate period and distributed by the distributor in the distributor's service area to: 115 consumers served by a retailer where a service transaction request as defined in the Retail i Settlement Code has been implemented; and 116 ii consumers other than consumers referred to in clause (i) who are not receiving the fixed price under sections 79.4 and 79.5 of the Ontario Energy Board Act, 1998. 117

Prior to the payment of a rebate amount by the IMO to a distributor which relates to electricity consumed in the service area of an embedded distributor, the embedded distributor shall provide the host distributor, in the form specified by the IMO and before the expiry of the period specified in the Retail Settlement Code, with the volumes of electricity distributed during the rebate period by the embedded distributor's host distributor to the embedded distributor net of any electricity distributed to the embedded distributor which is attributable to embedded generation and distributed by the embedded distributor in the embedded distributor's service area to:

118

consumers served by a retailer where a service transaction request as defined in the Retail Settlement Code has been implemented; and 119 ii consumers other than consumers referred to in clause (i) who are not receiving the fixed price under sections 79.4 and 79.5 of the Ontario Energy Board Act, 1998. 120 Prior to the payment of a rebate amount by the IMO to a distributor which relates to electricity con-C sumed in the service area of an embedded distributor, the host distributor shall provide the IMO, in the form specified by the IMO and before the expiry of the period specified by the IMO, with the information provided to the host distributor by the embedded distributor in accordance with section 2. 121 The IMO may issue instructions or directions providing for any information to be given under this section. The IMO shall rely on the information provided to it by distributors and there shall be no opportunity to correct any such information or provide any additional information and all amounts paid shall be final and binding and not subject to any adjustment. 122 For the purposes of attributing electricity distributed to an embedded distributor to embedded generation, the volume of electricity distributed by a host distributor to an embedded distributor shall be deemed to consist of electricity withdrawn from the IMO-controlled grid or supplied to the host distributor by an embedded generator in the same proportion as the total volume of electricity withdrawn from the IMO-controlled grid by the distributor in the rebate period bears to the total volume of electricity supplied to the distributor by embedded generators during the rebate period. 123 3 **Pass Through of Rebate** 124 A distributor shall promptly pass through, with the next regular bill or settlement statement after the rebate amount is received, any rebate received from the IMO, together with interest at the Prime Rate, calculated and accrued daily, on such amount from the date of receipt, to: 125 retailers who serve one or more consumers in the distributor's service area where a service a transaction request as defined in the Retail Settlement Code has been implemented; 126 b consumers who are not receiving the fixed price under sections 79.4 and 79.5 of the Ontario Energy Board Act, 1998 and who are not served by a retailer where a service transaction request as defined in the Retail Settlement Code has been implemented; and 127 embedded distributors to whom the distributor distributes electricity. C 128 The amounts paid out to the recipients listed above shall be based on energy consumed and calculated in accordance with the rules set out in the Retail Settlement Code. These payments may be made by way of set off at the option of the distributor.

Hydro 2000 Inc. Electricity Distribution Licence ED-2002-0542

If requested in writing by OPGI, the distributor shall ensure that all rebates are identified as coming from OPGI in the following form on or with each applicable bill or settlement statement:	12
"ONTARIO POWER GENERATION INC. rebate"	130
Any rebate amount which cannot be distributed as provided above or which is returned by a retailer to the distributor in accordance with its licence shall be promptly returned to the host distributor or IMO as applicable, together with interest at the Prime Rate, calculated and accrued daily, on such amount from the date of receipt.	13
Nothing shall preclude an agreement whereby a consumer assigns the benefit of a rebate payment to a retailer or another party.	132
Pending pass-through or return to the IMO of any rebate received, the distributor shall hold the funds received in trust for the beneficiaries thereof in a segregated account	133



Electricity Distribution Licence

ED-2002-0542

Hydro 2000 Inc.

Valid Until November 12, 2023

Mark C. Garner

Secretary

Ontario Energy Board

Date of Issuance: November 13, 2003

Ontario Energy Board

P.O. Box 2319

2300 Yonge Street

26th. Floor

Toronto, ON M4P 1E4

Commission de l'Énergie de l'Ontario

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4.1	The Licensee shall comply with all applicable provisions of the Act and the Electricity Act and regulations under these Acts except where the Licensee has been exempted from such compliance by regulation.		
4.2	The Licensee shall comply with all applicable Market Rules.		
5	Obligation to Comply with Codes		
5.1	The Licensee shall at all times comply with the following Codes (collectively the "Codes") approved by the Board, except where the Licensee has been specifically exempted from such compliance by the Board. Any exemptions granted to the licensee are set out in Schedule 3 of this Licence. The following Codes apply to this Licence:		
	a)	the Affiliate Relationships Code for Electricity Distributors and Transmitters;	30
	b)	the Distribution System Code;	31
	c)	the Retail Settlement Code; and	32
	d)	the Standard Supply Service Code.	33
5.2	The Licensee shall:		34
	a)	make a copy of the Codes available for inspection by members of the public at its head office and regional offices during normal business hours; and	35
	b)	provide a copy of the Codes to any person who requests it. The Licensee may impose a fair and reasonable charge for the cost of providing copies.	36
6	Obligation to Provide Non-discriminatory Access		37
6.1	The Licensee shall, upon the request of a consumer, generator or retailer, provide such consumer, generator or retailer with access to the Licensee's distribution system and shall convey electricity on behalf of such consumer, generator or retailer in accordance with the terms of this Licence.		
7	Obligation to Connect		
7.1	The Licensee shall connect a building to its distribution system if:		40

41 a) the building lies along any of the lines of the distributor's distribution system; and 42 b) the owner, occupant or other person in charge of the building requests the connection in writing. 43 7.2 The Licensee shall make an offer to connect a building to its distribution system if: 44 a) the building is within the Licensee's service area as described in Schedule 1; and 45 b) the owner, occupant or other person in charge of the building requests the connection in writing. 46 7.3 The terms of such connection or offer to connect shall be fair and reasonable and made in accordance with the Distribution System Code, and the Licensee's Rate Order as approved by the Board. 7.4 The Licensee shall not refuse to connect or refuse to make an offer to connect unless it is permitted to do so by the Act or a regulation or any Codes to which the Licensee is obligated to comply with as a condition of this Licence. 48 8 **Obligation to Sell Electricity** 49 8.1 The Licensee shall fulfill its obligation under section 29 of the Electricity Act to sell electricity in accordance with the requirements established in the Standard Supply Service Code, the Retail Settlement Code and the Licensee's Rate Order as approved by the Board. 50 9 **Obligation to Maintain System Integrity** 51 9.1 The Licensee shall maintain its distribution system in accordance with the standards established in the Distribution System Code and Market Rules, and have regard to any other recognized industry operating or planning standards adopted by the Board. 52 10 **Market Power Mitigation Rebates** 53 10.1 The Licensee shall comply with the pass through of Ontario Power Generation rebate conditions set

out in Appendix A of this Licence.

54

11 **Distribution Rates** 55 11.1 The Licensee shall not charge for connection to the distribution system, the distribution of electricity or the retailing of electricity to meet its obligation under section 29 of the Electricity Act except in accordance with a Rate Order of the Board. 56 12 Separation of Business Activities 57 The Licensee shall keep financial records associated with distributing electricity separate from its 12.1 financial records associated with transmitting electricity or other activities in accordance with the Accounting Procedures Handbook and as otherwise required by the Board. 58 13 **Expansion of Distribution System** 59 13.1 The Licensee shall not construct, expand or reinforce an electricity distribution system or make an interconnection except in accordance with the Act and Regulations, the Distribution System Code and applicable provisions of the Market Rules. 60 13.2 In order to ensure and maintain system integrity or reliable and adequate capacity and supply of electricity, the Board may order the Licensee to expand or reinforce its distribution system in accordance with Market Rules and the Distribution System Code, or in such a manner as the Board may determine. 61 14 Provision of Information to the Board 62 The Licensee shall maintain records of and provide, in the manner and form determined by the 14.1 Board, such information as the Board may require from time to time. 63 Without limiting the generality of condition 14.1 the Licensee shall notify the Board of any material 14.2 change in circumstances that adversely affects or is likely to adversely affect the business, operations or assets of the Licensee as soon as practicable, but in any event no more than twenty (20) days past the date upon which such change occurs. 64 15 **Restrictions on Provision of Information** 65 15.1 The Licensee shall not use information regarding a consumer, retailer, wholesaler or generator obtained for one purpose for any other purpose without the written consent of the consumer, retailer, wholesaler or generator. 66 15.2 The Licensee shall not disclose information regarding a consumer, retailer, wholesaler or generator to any other party without the written consent of the consumer, retailer, wholesaler or generator, except where such information is required to be disclosed:

67

to comply with any legislative or regulatory requirements, including the conditions of this a) Licence; 68 b) for billing, settlement or market operations purposes; 69 for law enforcement purposes; or c) 70 to a debt collection agency for the processing of past due accounts of the consumer, retailer, d) wholesaler or generator. 71 15.3 The Licensee may disclose information regarding consumers, retailers, wholesalers or generators where the information has been sufficiently aggregated such that their particular information cannot reasonably be identified. 72 15.4 The Licensee shall inform consumers, retailers, wholesalers and generators of the conditions under which their information may be released to a third party without their consent. 73 If the Licensee discloses information under this section, the Licensee shall ensure that the informa-15.5 tion provided will not be used for any other purpose except the purpose for which it was disclosed. 74 16 **Customer Complaint and Dispute Resolution** 75 16.1 The Licensee shall: 76 have a process for resolving disputes with customers that deals with disputes in a fair, reaa) sonable and timely manner; 77 b) publish information which will make its customers aware of and help them to use its dispute resolution process; 78 make a copy of the dispute resolution process available for inspection by members of the c) public at each of the Licensee's premises during normal business hours; 79 give or send free of charge a copy of the process to any person who reasonably requests it; d) and 80 e) subscribe to and refer unresolved complaints to an independent third party complaints resolution service provider selected by the Board. This condition will become effective on a date to be determined by the Board. The Board will provide reasonable notice to the Licensee of the date this condition becomes effective.

17	Term of Licence		81
17.1	This Licence shall take effect on November 12, 2003 and expire on November 11, 2023. The term of this Licence may be extended by the Board.		82
18	Fees ar	nd Assessments	83
18.1	The Licensee shall pay all fees charged and amounts assessed by the Board.		84
19	Communication		85
19.1	The Licensee shall designate a person that will act as a primary contact with the Board on matters related to this Licence. The Licensee shall notify the Board promptly should the contact details change.		86
19.2	All official communication relating to this Licence shall be in writing.		87
19.3	All written communication is to be regarded as having been given by the sender and received by the addressee:		88
	a)	when delivered in person to the addressee by hand, by registered mail or by courier;	89
	b)	ten (10) business days after the date of posting if the communication is sent by regular mail; and	90
	c)	when received by facsimile transmission by the addressee, according to the sender's transmission report.	91
20	Copies	s of the Licence	92
20.1	The Licensee shall:		
	a)	make a copy of this Licence available for inspection by members of the public at its head office and regional offices during normal business hours; and	94
	b)	provide a copy of the Licence to any person who requests it. The Licensee may impose a fair and reasonable charge for the cost of providing copies.	95

SCHEDULE 1 DEFINITION OF DISTRIBUTION SERVICE AREA

96

97

This Schedule specifies the area in which the Licensee is authorized to distribute and sell electricity in accordance with condition 8.1 of this Licence.

98

1. The former Village of Alfred as of December 31, 1996, as described in Schedule A of By-Law 1388 of the Corporation of the United Counties of Prescott and Russell, dated October 18, 1951.

99

2. The former Village of Plantagenet as of December 31, 1996, as described in Schedule A of the Ontario Municipal Board Order N-2361-61 as amended, dated November 6, 1963.

SCHEDULE 2 PROVISION OF STANDARD SUPPLY SERVICE

101

100

This Schedule specifies the manner in which the Licensee is authorized to retail electricity for the purposes of fulfilling its obligation under section 29 of the Electricity Act.

102

The Licensee is authorized to retail electricity directly to consumers within its service area in accordance with condition 8.1 of this Licence, any applicable exemptions to this Licence, and at the rates set out in the Rate Orders.

SCHEDULE 3 LIST OF CODE EXEMPTIONS

103

104

This Schedule specifies any specific Code requirements from which the Licensee has been exempted.

105

The Licensee is exempt from the requirements of section 2.5.3 of the Standard Supply Service Code with respect to the price for small volume/residential consumers, subject to the Licensee offering an equal billing plan as described in its application for exemption from Fixed Reference Price, and meeting all other undertakings and material representations contained in the application and the materials filed in connection with it.

106 APPENDIX A MARKET POWER MITIGATION REBATES 107 **Definitions and Interpretation** 108 In this Licence, 109 "embedded distributor" means a distributor who is not a market participant and to whom a host distributor distributes electricity; 110 "embedded generator" means a generator who is not a market participant and whose generation facility is connected to a distribution system of a distributor, but does not include a generator who consumes more electricity than it generates; 111 "host distributor" means a distributor who is a market participant and who distributes electricity to another distributor who is not a market participant. 112 In this Licence, a reference to the payment of a rebate amount by the IMO includes interim payments made by the IMO. 113 2 **Information Given to IMO** 114 Prior to the payment of a rebate amount by the IMO to a distributor, the distributor shall provide a the IMO, in the form specified by the IMO and before the expiry of the period specified by the IMO, with information in respect of the volumes of electricity withdrawn by the distributor from the IMO-controlled grid during the rebate period and distributed by the distributor in the distributor's service area to: 115 consumers served by a retailer where a service transaction request as defined in the Retail i Settlement Code has been implemented; and 116 ii consumers other than consumers referred to in clause (i) who are not receiving the fixed price under sections 79.4 and 79.5 of the Ontario Energy Board Act, 1998. 117

Prior to the payment of a rebate amount by the IMO to a distributor which relates to electricity consumed in the service area of an embedded distributor, the embedded distributor shall provide the host distributor, in the form specified by the IMO and before the expiry of the period specified in the Retail Settlement Code, with the volumes of electricity distributed during the rebate period by the embedded distributor's host distributor to the embedded distributor net of any electricity distributed to the embedded distributor which is attributable to embedded generation and distributed by the embedded distributor in the embedded distributor's service area to:

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118

consumers served by a retailer where a service transaction request as defined in the Retail Settlement Code has been implemented; and 119 ii consumers other than consumers referred to in clause (i) who are not receiving the fixed price under sections 79.4 and 79.5 of the Ontario Energy Board Act, 1998. 120 Prior to the payment of a rebate amount by the IMO to a distributor which relates to electricity con-C sumed in the service area of an embedded distributor, the host distributor shall provide the IMO, in the form specified by the IMO and before the expiry of the period specified by the IMO, with the information provided to the host distributor by the embedded distributor in accordance with section 2. 121 The IMO may issue instructions or directions providing for any information to be given under this section. The IMO shall rely on the information provided to it by distributors and there shall be no opportunity to correct any such information or provide any additional information and all amounts paid shall be final and binding and not subject to any adjustment. 122 For the purposes of attributing electricity distributed to an embedded distributor to embedded generation, the volume of electricity distributed by a host distributor to an embedded distributor shall be deemed to consist of electricity withdrawn from the IMO-controlled grid or supplied to the host distributor by an embedded generator in the same proportion as the total volume of electricity withdrawn from the IMO-controlled grid by the distributor in the rebate period bears to the total volume of electricity supplied to the distributor by embedded generators during the rebate period. 123 3 **Pass Through of Rebate** 124 A distributor shall promptly pass through, with the next regular bill or settlement statement after the rebate amount is received, any rebate received from the IMO, together with interest at the Prime Rate, calculated and accrued daily, on such amount from the date of receipt, to: 125 retailers who serve one or more consumers in the distributor's service area where a service a transaction request as defined in the Retail Settlement Code has been implemented; 126 b consumers who are not receiving the fixed price under sections 79.4 and 79.5 of the Ontario Energy Board Act, 1998 and who are not served by a retailer where a service transaction request as defined in the Retail Settlement Code has been implemented; and 127 embedded distributors to whom the distributor distributes electricity. C 128 The amounts paid out to the recipients listed above shall be based on energy consumed and calculated in accordance with the rules set out in the Retail Settlement Code. These payments may be made by way of set off at the option of the distributor.

Hydro 2000 Inc. Electricity Distribution Licence ED-2002-0542

If requested in writing by OPGI, the distributor shall ensure that all rebates are identified as coming from OPGI in the following form on or with each applicable bill or settlement statement:	12
"ONTARIO POWER GENERATION INC. rebate"	130
Any rebate amount which cannot be distributed as provided above or which is returned by a retailer to the distributor in accordance with its licence shall be promptly returned to the host distributor or IMO as applicable, together with interest at the Prime Rate, calculated and accrued daily, on such amount from the date of receipt.	13
Nothing shall preclude an agreement whereby a consumer assigns the benefit of a rebate payment to a retailer or another party.	132
Pending pass-through or return to the IMO of any rebate received, the distributor shall hold the funds received in trust for the beneficiaries thereof in a segregated account	133

Exhibit: 1 Tab: 1

Schedule: 3

Page: 1

Hydro 2000 Inc.

Electricity Distribution Licence

Exhibit: 1 Tab: 1

Schedule: 4

Page: 1

Hydro 2000 Inc.

CONTACT INFORMATION

NAME: Rene C. Beaulne TITLE: Manager

Direct line: 613-679-4093 Direct Fax: 613-679-4939

E-mail: aphydro@hawk.igs.net

Exhibit: 1 Tab: 1 Schedule: 5

Page: 1

Hydro 2000 Inc.

SPECIFIC APPROVALS REQUESTED The following are examples which need to reviewed and revised by the Applicant

- Approval to charge rates effective May 1, 2008 to recover a revenue sufficiency of \$165,866
 Exhibit 7, Tab 1, Schedule 1.
- Approval of the Applicant's proposed change in capital structure, decreasing/increasing the Applicant's deemed common equity component from ("50%") to ("40%") (Exhibit 6, Tab 1, Schedule 1,) consistent with Report of the Board on Cost of Capital and 2nd Generation Incentive Regulation for Ontario's Electricity Distributors dated December 20, 2006
- Approval to continue the following deferral/variance accounts on May 1, 2008 (Exhibit 5, Tab 1, Schedule 1):

Other Regulatory Assets	1508
LV variance	1550
Smart meter	1555
Deferred Payments in Lieu of Taxes	1562
PILS Contra Account	1563
CDM	1565
RSVA - Wholesale Market Service Charge	1580
RSVA - One-time Wholesale Market Service	1582
RSVA - Retail Transmission Network Charge	1584
RSVA - Retail Transmission Connection Charge	1586
RSVA - Power	1588
Recovery of Regulatory Asset Balances	1590
PILS Variance Deferral	1592

Hydro 2000 is requesting a deferral account to capture capital expenses in future years 2009 and 2010 that will be dispose in the next rebasing in 2011.

Approval of the proposed lost factor (Exhibit 4, Tab 2, Schedule 9):

Exhibit: 1

Tab: 1 Schedule: 6

Page: 1

Hydro 2000 Inc.

DRAFT ISSUES LIST To be completed by LDC based on final review of Application

Exhibit: 1

Tab: 1 Schedule: 7

Page: 1

Hydro 2000 Inc.

PROCEDURAL ORDERS/MOTIONS/NOTICES

A place holder – to be included when received

Exhibit: 1

Tab: 1 Schedule: 8

Page: 1

Hydro 2000 Inc.

ACCOUNTING ORDERS REQUESTED

As part of this proceeding, the Applicant is requesting the following accounting orders:

A Deferral account to capture capital expenses in future years 2009 and 2010 that will be dispose in the next rebasing in 2011.

Exhibit: 1 Tab: 1

Schedule: 9

Page: 1

Hydro 2000 Inc.

NON-COMPLIANCE WITH UNIFORM SYSTEM OF ACCOUNTS

The Applicant follows the main categories and accounting guidelines as stated in the Uniform System of Accounts.

Exhibit: 1

Tab: 1 Schedule: 10

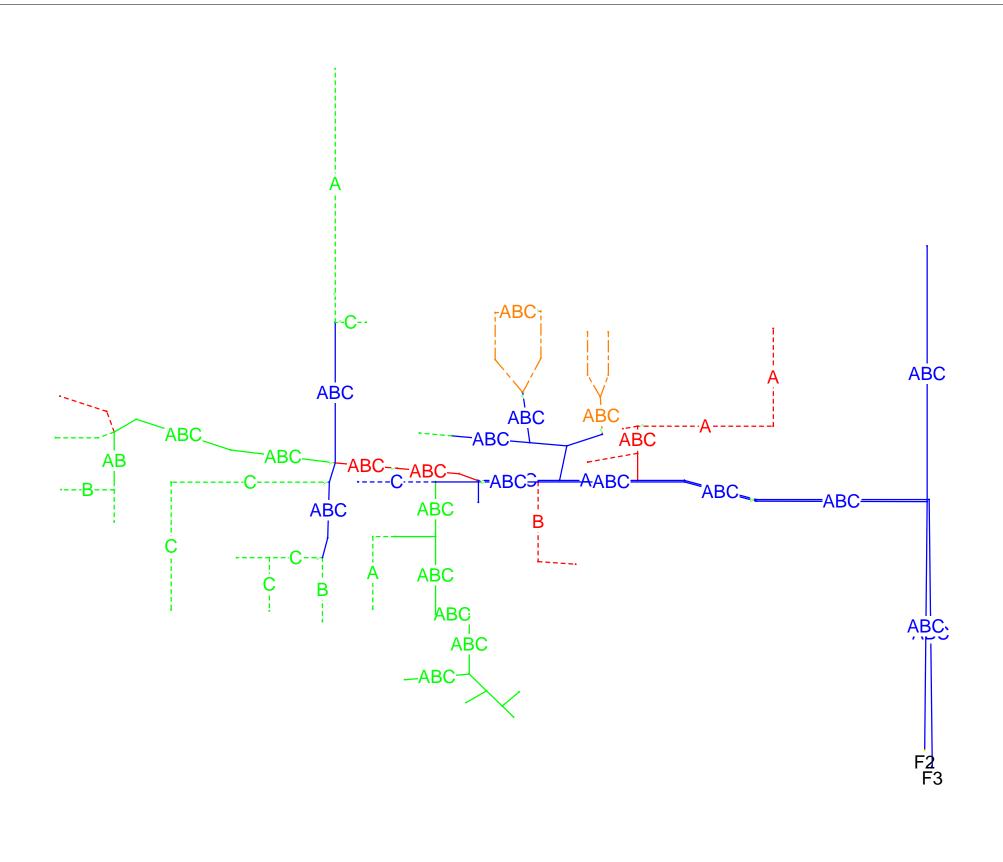
Page: 1

Hydro 2000 Inc.

MAP OF DISTRIBUTION SYSTEM

(Insert System Map here)





Legend
Default Layer:
Conductor size

Colors:
#2/0 AWG cable
#2 AWG ACSR
#1/0 AWG ACSR
#3/0 AWG ACSR
336 kcmil ACSR

Symbols :
Switch, (C)
Load
Switch, (O)



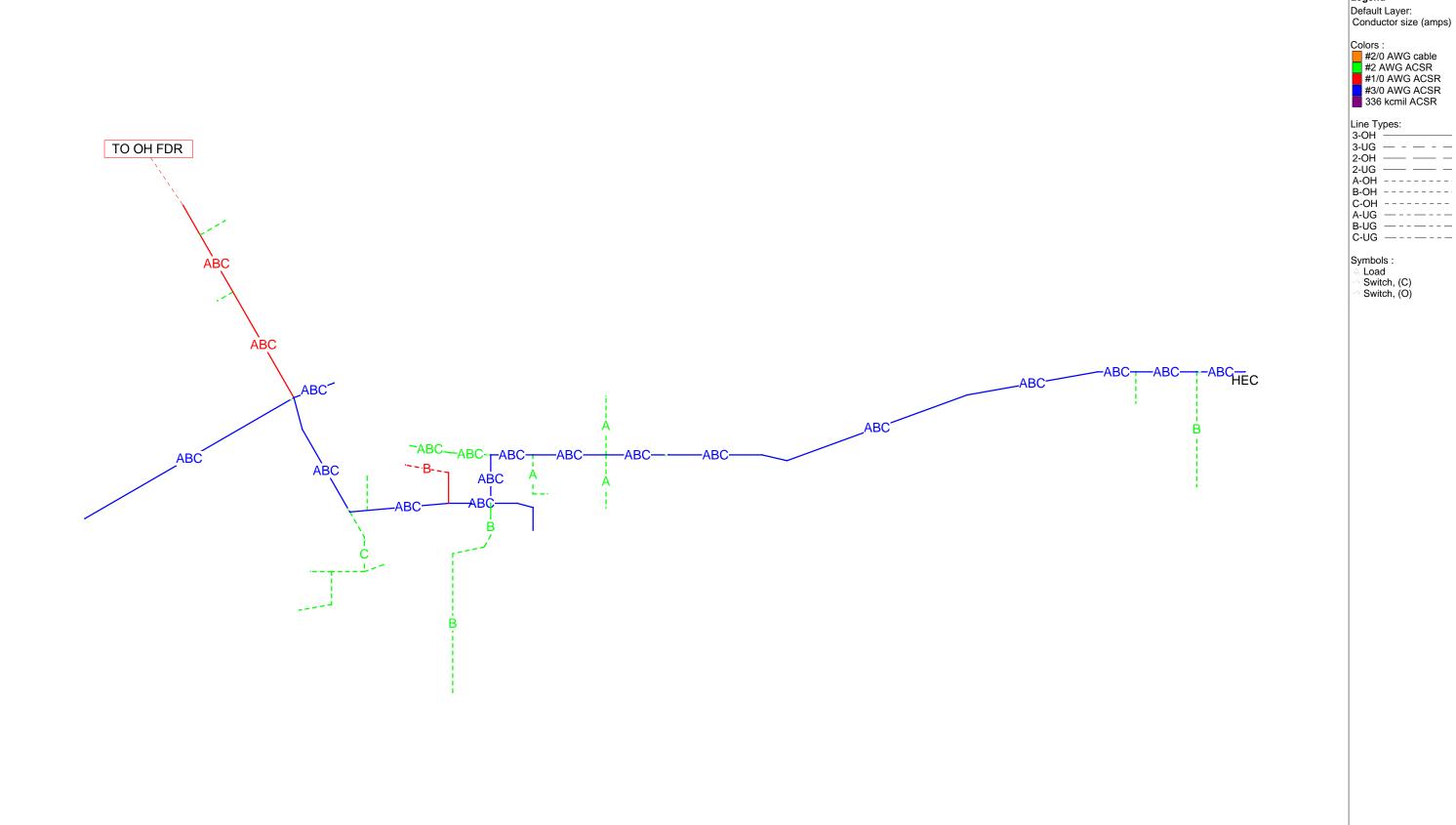


Exhibit: 1 Tab: 1

Schedule: 11

Page: 1

Hydro 2000 Inc.

LIST OF NEIGHBORING UTILITIES

LIST OF ADJACENT DISTRIBUTORS

UTILITY NAME ADDRESS Hydro One Networks 483, Bay Street

Toronto, On M5G 2P5 Direct line: 613-274-6327 Direct Fax: 613-224-1726

E-mail:mike.ritchie@HydroOne.com

DESCRIPTION OF HYDRO 2000 INC.

COMMUNITY SERVED: City: Alfred and Plantagenet

TOTAL SERVICE AREA sq km: 9km RURAL SERVICE AREA sq km: 4km

DISTRIBUTION TYPE 4.8 kV WYE

SERVICE AREA POPULATION 2460 MUNICIPAL POPULATION 9314

BOUNDARIES West: Hydro One Networks Inc

North: Hydro One Networks Inc East: Hydro One Networks Inc South: Hydro One Networks Inc

Exhibit: 1

Tab: 1

Schedule: 12 Page: 1

Hydro 2000 Inc.

EXPLANATION OF HOST AND EMBEDDED UTILITIES

Hydro 2000 Inc. is an embedded utility and Hydro One Networks Inc. is its Host distributor.

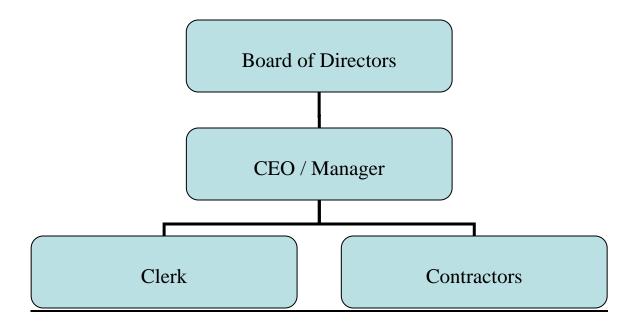
Exhibit: 1

Tab: 1 Schedule: 13

Page: 1

Hydro 2000 Inc.

UTILITY ORGANIZATIONAL CHART



Hydro 2000 Inc. is a Local Distribution Company and has no affiliates.

Exhibit: 1

Tab: 1 Schedule: 14

Page: 1

Hydro 2000 Inc.

CORPORATE ENTITIES RELATIONSHIP CHARTS

Share Holders Townships Alfred Plantagenet

Hydro 2000 Inc.

Exhibit: 1 Tab: 1

Schedule: 15

Page: 1

Hydro 2000 Inc.

PLANNED CHANGES IN CORPORATE OR OPERATIONAL STRUCTURE

No changes are planned in corporate or operational structure.

Exhibit: 1 Tab: 1

Schedule: 16

Page: 1

Hydro 2000 Inc.

STATUS REPORT ON BOARD DIRECTIVES

Not applicable.

Exhibit: 1

Tab: 1

Schedule: 17 Page: 1

Hydro 2000 Inc.

CONDITIONS OF SERVICE



Cornerstone Hydro Electric Concepts Association Inc.



CONDITIONS OF SERVICE

Table of Contents

SECTION 1 INTRODUCTION

- 1.1 Identification of Distributor and Territory
 - 1.1.1 General
- 1.2 Related Codes, and Governing Laws
- 1.3 Interpretations
- 1.4 Amendments and Changes
- 1.5 Contact Information
- 1.6 Customer Rights
- 1.7 Distributor Rights
- 1.8 Disputes

SECTION 2 DISTRIBUTION ACTIVITIES (GENERAL)

2.1 Connections

- 2.1.1 Building that Lies Along
- 2.1.2 Expansions / Offer to Connect
- 2.1.3 Connection Denial
- 2.1.4 Inspections Before Connections
- 2.1.5 Relocation of Plant
- 2.1.6 Easements
- 2.1.7 Contracts

2.2 Disconnection

2.3 Conveyance of Electricity

- 2.3.1 Guaranty of Supply
- 2.3.2 Power Quality
- 2.3.3 Electrical Disturbances

COS Version 5.3a Page- 1 -



Cornerstone Hydro Electric Concepts Association Inc.



2.3.4	Standard	Voltage	Offerings
4.5.1	Dianaua	Voituge	OHIGHES

- 2.3.4.1 Secondary Voltage
- 2.3.4.2 Primary Voltage
- 2.3.5 Voltage Guidelines
- 2.3.6 Back-up Generators
- 2.3.7 Metering
 - 2.3.7.1 General
 - 2.3.7.2 Current Transformer Boxes
 - 2.3.7.3 Interval Metering
 - 2.3.7.4 Meter Reading
 - 2.3.7.5 Final Meter Readings
 - 2.3.7.6 Faulty Registration of Meters
 - 2.3.7.7 Meter Dispute Testing
 - 2.3.7.8 Location
 - 2.3.7.9 Meter Mounting Heights
 - 2.3.7.10 Environment
 - 2.3.7.11 Meter Sockets
 - 2.3.7.12 Cabinets
 - 2.3.7.13 Metering Loops
 - 2.3.7.14 Metal Enclosed Switchgear
 - 2.3.7.15 Switchgear Connected to Wye Source
 - 2.3.7.16 Four Quadrant Metering (Generation)

2.4 Tariffs and Charges

- 2.4.1 Service Connections
- 2.4.2 Energy Supply
 - 2.4.2.1 Wheeling of Power
- 2.4.3 Supply Deposits and Agreements
- 2.4.4 Billing
 - 2.4.4.1 Competitive Charges
 - 2.4.4.2 Non Competitive Charges
 - 2.4.4.3 Billable Engineering Units
 - 2.4.4.4 Use of Estimates
- 2.4.5 Payments and Late Payment Charges
- 2.4.6 Unauthorized Energy Use

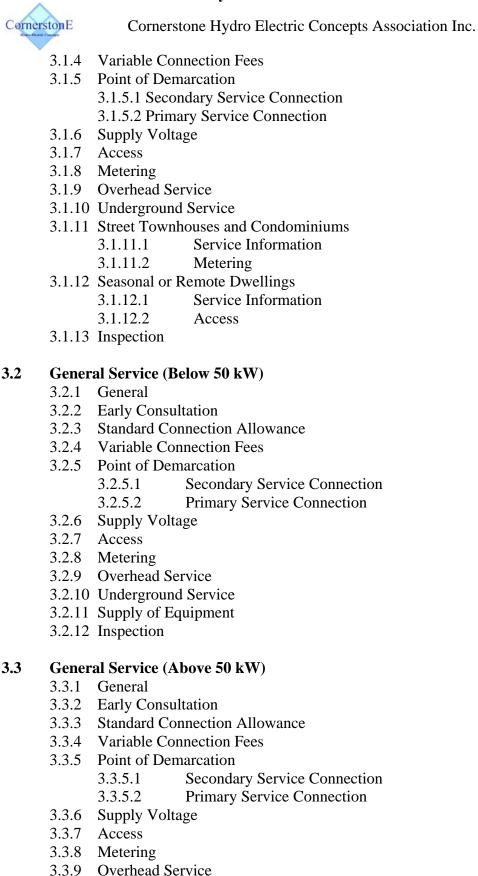
2.5 Customer Information

SECTION 3 CUSTOMER SPECIFIC

3.1 Residential

- 3.1.1 General
- 3.1.2 Early Consultation
- 3.1.3 Standard Connection Allowance

COS Version 5.3a Page- 2 -



COS Version 5.3a Page- 3 -

3.3.10 Underground Service





Cornerstone Hydro Electric Concepts Association Inc.



- 3.3.11 Sub-transmission Service
- 3.3.12 Supply of Equipment
- 3.3.13 Short Circuit Capacity
- 3.3.14 Inspection

3.4 General Service (Above 500 kW)

- 3.4.1 General
- 3.4.2 Early Consultation
- 3.4.3 Standard Connection Allowance
- 3.4.4 Variable Connection Fees
- 3.4.5 Point of Demarcation
 - 3.4.5.1 Service Installation
- 3.4.6 Supply Voltage
- 3.4.7 Access
- 3.4.8 Metering
- 3.4.9 Sub-transmission Service
- 3.4.10 Short Circuit Capacity
- 3.4.11 Drawings
- 3.4.12 Pre-Service Inspection

3.5 Embedded Generation

- 3.5.1 General
- 3.5.2 Protection
 - 3.5.2.1 Internal Faults
 - 3.5.2.2 External Faults
 - 3.5.2.3 Ground Faults
 - 3.5.2.4 Phase Faults
 - 3.5.2.5 Islanding/Abnormal Conditions
- 3.5.3 Induction Generator
- 3.5.4 DC Remote Tripping / Transfer Tripping
- 3.5.5 Maintenance

3.6 Embedded Market Participant

3.7 Embedded Distributor

3.8 Miscellaneous Small Services

- 3.8.1 General
- 3.8.2 Early Consultation
- 3.8.3 Street Lighting
- 3.8.4 Traffic Signals
- 3.8.5 Bus Shelters
- 3.8.6 Decorative Street Lighting

SECTION 4 GLOSSARY OF TERMS

COS Version 5.3a Page- 4 -



Cornerstone Hydro Electric Concepts Association Inc.



SECTION 5 APPENDICIES

Electrical Planning Requirements Document

Electric Service Meter Base Verification Document

Contact Information

Deposit Policy

Disconnection Policy

Collections Policy

COS Version 5.3a Page- 5 -



Cornerstone Hydro Electric Concepts Association Inc.



SECTION 1 INTRODUCTION

1.1 Identification of Distributor and Territory

The Distributor is a corporation, incorporated under the laws of the Province of Ontario to distribute electricity.

The Distributor is licensed by the Ontario Energy Board "OEB" to supply electricity to Customers as described in the Transitional Distribution License and thereafter by the Distribution License issued to the Distributor by the OEB. Additionally there are requirements imposed on the Distributor by the various codes referred to in the License and by the <u>Electricity Act</u> and the <u>Ontario Energy Board Act</u>.

The Distributor is limited to operate distribution facilities within their Licensed Territory as defined in the Distribution License.

1.1.1 General

Nothing contained in this document or in any contract for the supply of electricity by the Distributor shall prejudice or affect any rights, privileges, or powers vested in the Distributor by law under any Act of the Legislature of Ontario or the Parliament of Canada, or any regulations thereunder.

The Distributor will normally provide one electrical service to each customer location at a nominal service voltage.

Modifications to an existing service must comply with the requirements of the standards in effect at the time of the modifications.

The customer or their authorized representative must make application for new or upgraded electric services and temporary power services.

The customer or their representative shall consult with the Distributor concerning the availability of supply, the voltage of supply, service location, metering and any other details. These requirements are separate from and in addition to those of the Electrical Inspection Authority. The Distributor will confirm, in writing, the Characteristics of Electric Supply available at a specific site.

The customer is required to provide the Distributor sufficient lead-time in order to ensure:

- (a) the timely provision of supply to new and upgraded premises or
- (b) the availability of adequate capacity for additional loads to be connected in existing premises.

If special equipment is required or equipment delivery problems occur then longer lead times may be necessary. The customer will be notified of any extended lead times.

Customers will be required to pay the cost of repair or replacement of the Distributors' equipment that has

COS Version 5.3a Page- 6 -



Cornerstone Hydro Electric Concepts Association Inc.



been damaged through the customers' action or neglect.

The supply of electricity is conditional upon the Distributor being permitted and able to provide such a supply, obtaining the necessary apparatus and material, and constructing works to provide the service. Should the Distributor not be permitted to supply or not be able to do so, it is under no responsibility to the customer whatsoever.

The Customer shall not build, plant or maintain or cause to be built, planted or maintained any structure, tree, shrub or landscaping that would or could obstruct the running of distribution lines, endanger the equipment of the Distributor, interfere with the proper and safe operation of the Distributor's facilities or adversely affect compliance with any applicable legislation in the sole opinion of the Distributor.

Prior to commencing any service work, the customer must consult with the Distributor to ensure compliance with current requirements.

The Distributor, at the expense of the Owner, reserves the right to provide an Inspector who will be on duty for the duration of the work, and the Contractor shall supply him such accommodations as he may require. The Inspector shall have the authority to stop work at any time he feels the Contractor is not proceeding in accordance with these "conditions of service". Work shall not recommence until the Distributor has been notified and the Inspector is present at the site.

Customers may be required to pay Capital Contributions for the addition of new electrical services in accordance to calculations on overall system cost impact.

1.2 Related Codes and Governing Laws

The Distributor is limited in its scope of operation by the:

- 1. Electricity Act, 1998 http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_98e15_e.htm
- 2. Ontario Energy Board Act, 1998 http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_98o15_e.htm
- 3. Distribution Licence Licence Numbers
- 4. Affiliate Relationships Code http://www.oeb.gov.on.ca/documents/affiliatecode_amendedcode.112403.pdf
- 5. Distribution System Code http://www.oeb.gov.on.ca/documents/cases/EB-2005-0488/dsccode_20070627.pdf
- 6. Retail Settlements Code http://www.oeb.gov.on.ca/documents/cases/RP-1999-0032/code_231104.pdf
- 7. Standard Service Supply Code http://www.oeb.gov.on.ca/documents/cases/EB-2004-0205/sssc/rpp_sssc_revised_20070627.pdf
- 8. *Transmission System Code* http://www.oeb.gov.on.ca/documents/cases/RP-2004-0220/tsc_finalclean.pdf

COS Version 5.3a Page- 7 -



Cornerstone Hydro Electric Concepts Association Inc.



In the event of a conflict between this document and the Distribution Licence or regulatory Codes issued by the OEB, or the <u>Electricity Act</u>, the provisions of the Act, the Distribution License and associated regulatory Codes shall prevail.

When planning and designing for electricity service, Customers and their agents must refer to all applicable provincial and Canadian electrical codes, and all other applicable federal, provincial, and municipal laws, regulations, codes and by-laws to also ensure compliance with their requirements. The work shall be conducted in accordance with the Ontario Occupational Health and Safety Act, the Regulations for Construction Projects and the E&USA (or the OHSC Safety) rulebook.

1.3 Interpretations

In these Conditions, unless the context otherwise requires:

- Headings and underlining are for convenience only and do not affect the interpretation of these Rules.
- Words referring to the singular include the plural and vice versa.
- Words referring to a gender include any gender.

1.4 Amendments and Changes

The provisions of these Conditions of Service and any amendments made from time to time form part of any Contract made between the Distributor and any connected Customer, Generator or their agents.

In the event of changes to this Conditions of Service, a Public notice shall be made in the form of either a notice in the local newspaper, or a notice on the Distributors' Website.

The Customer is responsible for contacting the Distributor to ensure that the Customer has, or to obtain the current version of the Conditions of Service. The Distributor may charge a reasonable fee for providing the Customer with more than one copy of this document.

1.5 Contact Information

The Distributor and its agents can be contacted during normal working hours (Monday to Friday between 8:30 and 4:30). Please refer to the Contact Listing in the Appendices for the phone number of the Local Distribution Company servicing your area.

1.6 Customer Rights

In those instances where the Customer will own their secondary or primary service, the Customer has the right to hire a Contractor to supply and install the service.

COS Version 5.3a Page- 8 -



Cornerstone Hydro Electric Concepts Association Inc.



The customer has the right to demand identification from any person purporting to be an authorized agent or employee of the distributor.

A customer, who believes that he has suffered damages to his property or equipment as a result of negligence on the part of the Distributor, may submit a written claim for damages to the Distributor. The Distributor will investigate the claim and respond in writing within 10 business days of the receipt of the claim.

1.7 Distributor Rights

In those instances where the Customer has the authority to hire a Contractor to construct plant which will become part of the Distributors' system, the Distributor shall have the right to require the Contractor to submit proof of previous experience and satisfactory performance, and, the Distributor shall have the right to investigate such proof and approve the Contractor prior to the Owner awarding a contract for the work to the Contractor.

The Distributor shall have access to Customer property in accordance with section 40 of the *Electricity Act*, 1998.

1.8 Disputes

If, following good faith negotiations between a customer or other market participant and the Distributor, a resolution cannot be reached, the dispute may be submitted to a dispute resolution process.

Any dispute which shall arise between the Distributor and a customer(s) and other market participants subject to the terms of these Conditions of Service concerning the rights, duties or obligations of the Distributor or others subject to these Conditions of Service, shall be subject to the following dispute resolution procedure:

Mediation

- Either party (the "Initiating Party") may invoke the dispute resolution procedure by sending a written notice to the other party (the "Respondent Party") describing the nature of the dispute and designating a representative of the Initiating Party with appropriate authority to be its representative in negotiations relating to the dispute. The responding Party shall, within five business days of the receipt of such notice, send a written notice to the Initiating Party, designating a representative of the Responding party with the appropriate authority to be its representative in negotiations relating to the dispute.
- Within ten business days of the receipt by the Initiating Party of the written notice of the Responding Party the designated representatives shall enter into good faith negotiations with a view to resolving the dispute. If the dispute is not resolved in thirty days of the commencement of such negotiations, or such longer period as may be agreed upon, either party may, by written notice to the other party, require that the parties be assisted in their negotiations by a mediator. The mediator shall be acceptable to both parties and have knowledge and experience in the matter under dispute, or professional qualifications, or experience in alternative dispute resolution, or both. The parties shall thereafter participate in mediation with the mediator through such process as the mediator, in consultation with the parties, may determine.

COS Version 5.3a Page- 9 -



Cornerstone Hydro Electric Concepts Association Inc.



• None of the parties shall be deemed to be in default of any matter being mediated, until effective or after the date mediation fails.

Referral to Dispute Resolution

Any dispute that is not resolved through mediation as described above shall be referred to the Ontario Energy Board for dispute resolution according to the following procedure:

- Upon the written demand of either of the parties, the dispute shall be referred to the Ontario Energy Board for resolution of the dispute.
- The Ontario Energy Board disputes resolution process shall immediately proceed to hear the matter or matters in dispute. The decision of the Ontario Energy Board disputes resolution process shall be made within 45 days of the selection, subject to any reasonable delay due to unforeseen circumstances.
- The decision of the Ontario Energy Board disputes resolution process shall be in writing and signed by the Ontario Energy Board staff. It shall be final and binding upon all the parties hereto as to any matter or matters so submitted to the Ontario Energy Board disputes resolution panel and shall observe and implement the terms and conditions thereof.
- The compensation and expenses of the Ontario Energy Board disputes resolution panel, (unless otherwise determined by the Board) shall be paid equally by the parties.

COS Version 5.3a Page- 10 -



Cornerstone Hydro Electric Concepts Association Inc.



SECTION 2 DISTRIBUTION ACTIVITIES (GENERAL)

2.1 Connections and Expansions

This section includes information that is applicable to all customer classes of the distributor. Items that are applicable to only a specific customer class are covered in <u>Section 3</u>.

2.1.1 Building that Lies Along

As provided in **Section 28** of the <u>Electricity Act 1998</u> the Distributor has the Obligation to Connect any Building that 'lies along" its distribution system. A building 'lies along" a distribution line if it can be connected to the distributor distribution system without an expansion or enhancement, and meets the conditions listed in the <u>Distribution System Code</u>.

A Building that 'lies along' a distribution line may be refused connection to that line should the distribution line not have sufficient capacity for the requested connection.

A Building that 'lies along" a distribution line may be refused connection to that line should the connection be bad or unsafe for the system.

2.1.2 Expansions / Offer to Connect

Under the terms of the <u>Distribution System Code</u> Section 3.1, a Distributor has the Obligation to make an Offer to Connect any Building that 'lies along" its distribution system yet may be excluded due to being outside of the Service Territory. The Offer to connect must be Fair and Reasonable and be based on the distributors' design standard. The Offer to Connect must also be made within a reasonable time from the request for connection.

The Distributor may require a customer to pay all or a part of the costs of electrical plant installed to supply only that customer. Such capital contributions will be calculated using the guidelines set out by the OEB in the Distribution System Code.

2.1.3 Connection Denial

The <u>Distribution System Code</u> in section 3.1 sets outs the conditions for a Distributor to deny connections. A Distributor is not obligated to connect a building within its service territory if the connection would result in any of the following:

- Contravention of existing Canadian Laws, and those of the Province of Ontario.
- Violations of conditions in a Distributors' Licence.
- Use of a distribution system line for a purpose that it does not serve and that the Distributor does not

COS Version 5.3a Page- 11 -



Cornerstone Hydro Electric Concepts Association Inc.



intend to serve.

- Adverse effect on the reliability and safety of the distribution system.
- Imposition of an unsafe work situation beyond normal risks inherent in the operation of the distribution system.
- A material decrease in the efficiency of the distributors' distribution system.
- A material adverse effect on the quality of distribution services received by an existing connection.
- Discriminatory access to distribution services.
- Potential increases in monetary amounts that already are in arrears with the distributor
- Any other conditions documented in the distributors Conditions of Service document that are consistent with the conditions identified above and with the goals delineated in the Energy Competition Act, 1998.

2.1.4 Inspections Before Connections

The Distributor has the right to request an inspection prior to any connection.

All customer electrical installations shall be inspected and approved by the Electrical Safety Authority, referred to herein as the ESA.

The Distributor requires notification from the ESA of this approval prior to the connection of a customer's service.

Services that have been disconnected for a period of six months or longer shall also be re-inspected and approved by the ESA prior to reconnection.

Temporary services, for construction purposes, are approved by the ESA for a period of twelve months and must be re-inspected should the period of use exceed twelve months.

The Distributor reserves the right to inspect and approve Transformer rooms, Vaults and Pads prior to during and following the installation of equipment.

Provision for metering shall be inspected and approved by the Distributor prior to connection.

Customer owned substations must be inspected by both the Electrical Safety Authority and the Distributor, prior to connection to the Distribution system.

Duct banks and road crossings shall be inspected and approved by the Distributor prior to the pouring of concrete and again before backfilling.

The Distributor reserves the right to inspect any underground trenches prior to backfilling.

The Distributor reserves the right to approve the installation and location of all submarine cable. All documentation and permits required for laying of submarine cable must be provided to the Distributor. The installation of submarine cable must meet the requirements of all governing legislation.

All work done on existing Distributor plant must be authorized by the Distributor and carried out in

COS Version 5.3a Page- 12 -



Cornerstone Hydro Electric Concepts Association Inc.



accordance with all applicable safety acts and regulations.

In accordance with the <u>Distribution System Code</u>, if the Distributor refuses to connect a building in its service territory that lies along one of its distribution lines, the distributor shall inform the person requesting the connection of the reasons for not connecting, and where the distributor is able to provide a remedy, make an offer to connect. If the Distributor is unable to provide a remedy to resolve the issue, it is the responsibility of the customer to do so before a connection can be made.

2.1.5 Relocation of Plant

The Distributor will, where feasible, accommodate requests to relocate electrical plant such as poles and metal enclosed equipment.

The customer will be required to pay all of the costs incurred by the relocation.

Requests by civic authorities to relocate distribution facilities will be done so in accordance with the appropriate regulations.

2.1.6 Easements

To maintain the reliability, integrity and efficiency of the distribution system, the Distributor has the right to have supply facilities on private property registered against title to the property. Easements are required whenever the Distributors' underground or overhead plant is to be located on private property or crosses over an adjacent private property to service a Customer.

The Customer shall acquire and grant in the distributors name, at no cost to the Distributor, where required, an easement to permit installation and maintenance of service. The width and extent of this easement shall be determined by the Distributor. The easement shall be granted prior to connection of the service.

The Owner shall furnish to the Distributor, free and clear of all encumbrances, sufficient easements to enable the servicing of all existing or proposed developments or subdivisions from plants located on the Owners' property.

Sufficient property at suitable locations shall be made available for the purpose of the installation of distributors' assets.

The Customer will prepare at its own costs a reference plan and associated easement documents to the satisfaction of the Distributors' solicitor prior to its registration and register the easement plan. Details will be provided upon application for service.

Where surface restoration by the Distributor is required following any repairs or maintenance to a service, the Distributor will in so far as is practicable, restore the property to its original condition; and provide compensation for any damages caused by the entry that cannot be repaired.

COS Version 5.3a Page- 13 -



Cornerstone Hydro Electric Concepts Association Inc.



2.1.7 Contracts

<u>Standard Form of Contract</u> - Connection to the electrical distribution system will be provided upon completion of a signed contract between the customer and the distributor, and receipt of approval by the Electrical Safety Authority.

All customers will be required to complete and sign the standard form of contract to apply for the supply of an electrical energy connection. A Standard Contract for service shall be considered as being in force from the date it is signed by the Customer and the Distributor and shall remain in force until terminated by either party.

<u>Implied Contract</u> - In all cases, notwithstanding the absence of a formal contract, the taking and using of electrical energy from the Distributor by any Person or Persons constitutes the acceptance of the terms and conditions of all regulations, conditions and rates as established by the Distributor. Such acceptance and use of energy shall be deemed to be the acceptance of a binding contract with the Distributor and the Person so accepting shall be liable for payment for such energy and the contract shall be binding upon the Person's heirs, administrators, executors, successors or assigns.

Special Contracts - Special contracts that are customized in accordance with the service requested by the Customer normally include, but are not necessarily limited to, the following examples:

- construction sites
- *mobile facilities*
- non-permanent structures
- special occasions, etc.
- generation

2.2 Disconnection

The Distributor has the right and/or obligation to disconnect the supply of electrical energy to a Customer for causes including but not limited to:

- Overdue amounts payable to the Distributor, Retailer, or Wholesaler (provided the Distributor provides the Customer with reasonable notice of the proposed shut off of electricity).
- Hazardous conditions.
- Electrical disturbance propagation caused by Customer equipment that is not corrected in a timely fashion.
- Energy diversion, fraud or abuse on the part of the Customer.
- When ordered to do so by any authority having the legal right to issue such an order.
- Adverse effect on the reliability and safety of the distribution system.
- Imposition of an unsafe worker situation beyond normal risks inherent in the operation of the distribution system.
- A material decrease in the efficiency of the distributor's distribution system.
- A materially adverse effect on the quality of distribution services received by an existing connection.

COS Version 5.3a Page- 14 -



Cornerstone Hydro Electric Concepts Association Inc.



- Inability of the distributor to perform planned inspections and maintenance.
- Failure of the consumer or customer to comply with a directive of a distributor that the distributor makes for purposes of meeting its licence obligations.

2.3 Conveyance of Electricity

2.3.1 Guaranty of Supply

The Distributor agrees to use reasonable diligence in providing a regular and uninterrupted supply but does not guarantee a constant supply or the maintenance of unvaried frequency or voltage and will not be liable in damages to the Customer by reason of any failure in respect thereof.

Customers requiring a higher degree of security than that of normal supply are responsible to provide their own back-up or standby facilities.

When power is interrupted, or the Customer is experiencing power quality problems the Customer or their electrical contractor shall first ensure that interruption is not due to problems within the customer owned installation. If after verifying that the cause of the problem does not reside on the customers' installation, the customer shall contact the Distributor. The Distributor will respond to and take reasonable steps to restore power. The Distributor reserves the right to recover costs from the customer for making false claims of interruptions.

Although it is the Distributors' policy to minimize inconvenience to Customers, it is necessary to occasionally interrupt a Customers' supply to maintain or improve the Distributors' system, or to provide new or upgraded services to other Customers. Whenever practical and cost effective, as determined by the Distributor, arrangements suitable to the Customer and the Distributor may be made to minimize any inconvenience. The Distributor will endeavor to provide the Customer with reasonable advance notice, except in cases of emergency, involving danger to life and limb, or impending severe equipment damage.

The Distributor will endeavor to notify Customers prior to interrupting the supply to any individual service. However, if an unsafe or hazardous condition is found to exist, or if the use of electricity by apparatus, appliances, or other equipment is found to be unsafe or damaging to the Distributor or the public, service may be discontinued without notice.

Depending on the outage duration and the number of Customers affected, the Distributor may issue a news release to advise the general public of the outage.

2.3.2 Power Quality

The distributor will respond to and take reasonable steps to investigate consumer power quality complaints and report to the consumer on the results of the investigation. The method and level of investigation will be at the discretion of the Distributor.

COS Version 5.3a Page- 15 -



Cornerstone Hydro Electric Concepts Association Inc.



If the source of a power quality problem is caused by the consumer making the complaint, the distributor may seek reimbursement for the time and cost spent to investigate the complaint.

If the source of a power quality problem is caused by a consumer, the Distributor may direct the consumer to take corrective action. If the Consumer does not take such action within a reasonable time, the Distributor may disconnect the supply of power to the Customer. (*see section 2.2*)

2.3.3 Electrical Disturbances

There are levels of voltage fluctuation and other disturbances that can cause flickering lights and more serious difficulties for Customers connected to the Distributor distribution system.

Some types of electronic equipment, such as video display terminals, can be affected by the close proximity of high electrical currents that may be present in transformer rooms.

No electrical equipment, which may produce an undesirable system disturbance, shall be connected by a customer to a customer's service without prior approval of the Distributor.

Examples of equipment, which may cause disturbance, are large motors, welders and variable speed drives. In planning the installation of such equipment, the customer is required to consult with the Distributor.

The Distributor will endeavour to maintain voltage variation limits, under normal operating conditions, at the Customers' Delivery Points, as specified by the latest edition of the <u>Canadian Standards Association</u>, <u>C235</u>. However, more sensitive electronic equipment such as computers can be seriously affected by variations in quality of supply voltage. Customers who need electrical power of high quality and with rigid voltage tolerances are responsible for providing their own power conditioning equipment.

Customers requiring a three-phase supply should install protective apparatus to avoid damage to their equipment, which may be caused by the interruption of one phase, or non-simultaneous switching of phases of the Distributors' supply.

The customer shall provide such protective devices as may be necessary to protect his property or equipment from any disturbance beyond the control of the distributor.

2.3.4 Standard Voltage Offerings

2.3.4.1 For Secondary Voltage

The Supply Voltage governs the limit of supply capacity for any Customer. General guidelines for supply from overhead street circuits are as follows:

• at 120/240 V. single phase, or

• 347/600 V. three phase, four wire, or

COS Version 5.3a Page- 16 -



Cornerstone Hydro Electric Concepts Association Inc.



• 120/208 V three phase, four wire,

OR

Where street circuits are buried, the Supply Voltage and limits will be determined upon application to the Distributor.

OR

Where the Customer or Developer provides a pad on private property;

- at 120/240 V single phase, or
- at 120/208 V three phase, four wire, or
- at 347/600 V three-phase, four-wire

2.3.4.2 For Primary Voltage

Primary supplies to transformers or customer-owned substations will be one of the following as determined by the Distributor:

- 2,400/4,160 volts 3 phase 4 wire
- 4,800/8,320 volts 3 phase 4 wire
- 7,200/12,400 volts 3 phase 4 wire
- 8,000/13,800 volts 3 phase 4 wire
- 16,000/27,600 volts 3 phase 4 wire
- 27,600 volts 3 phase 3 wire delta
- 44,000 volts 3 phase 3 wire

An electrical requirement in excess of 300 kVA may require a customer owned Substation supplied at the voltage as determined by the distributor.

2.3.5 Voltage Guidelines

The Distributor maintains service voltage at the Customers' service entrance within the guidelines of C.S.A. Standard CAN3-C235 (latest edition) which allows variations from nominal voltage of: http://www.csa-intl.org/onlinestore/GetCatalogDrillDown.asp?Parent=542,

6% for Normal Operating Conditions 8% for Extreme Operating Conditions

Where voltages lie outside the indicated limits for Normal Operating Conditions but within the indicated limits for Extreme Operating Conditions, improvement or corrective action will be taken on a planned and programmed basis, but not necessarily on an emergency basis.

COS Version 5.3a Page- 17 -



Cornerstone Hydro Electric Concepts Association Inc.



Where voltages lie outside the indicated limits for Extreme Operating Conditions, improvement or corrective action will be taken on an emergency basis. The urgency for such action will depend on many factors such as the location and nature of load or circuit involved, the extent to which limits are exceeded with respect to voltage levels and duration, etc.

2.3.6 Back-up Generators

Customers with portable or permanently connected emergency generation capability shall comply with all applicable criteria of the Ontario Electrical Safety Code and in particular, shall ensure that customer emergency generation does not back-feed on the Distributors' system.

http://www.esainspection.net/pdf/Ontario Amendments Canadian Electrical Code.pdf

Customers with permanently connected emergency generation equipment shall notify the Distributor regarding the presence of such equipment.

The distributor reserves the right to have the connection of this equipment inspected.

Generation systems found to be feeding into the Distribution system without proper approval of the Distributor shall be subject to immediate disconnection.

2.3.7 Metering

2.3.7.1 General

2.3.7.1.1 Access

The Distributor or its agents shall have the right to access and read any of the Distributors' electricity meters on the Customer's premises.

All metering installations shall be accessible from a public area.

2.3.7.1.2 Costs

All the Distributor metering equipment located on the Customer's premises are in the care and at the risk of the Customer and if destroyed or damaged, other than by normal usage, the Customer will pay for the cost of repair or replacement.

Regardless of any charges for metering installations, all meters and meter instrumentation equipment shall remain the property of the Distributor and maintenance of this equipment shall be the Distributors' responsibility.

COS Version 5.3a Page- 18 -



Cornerstone Hydro Electric Concepts Association Inc.



2.3.7.1.3 *Voltage*

Generally, metering will be at utilization voltage. Where the Distributor provides primary transformation, primary voltage metering will be allowed only in special circumstances following full discussion with the Distributor.

Customer-owned substations may require primary metering. The provisions required for these installations shall be specified and approved by the Distributor for each application.

2.3.7.1.4 Primary / Bulk Metering

Primary metering units may be installed outdoors or within and electrical vault as outlined in the current Electrical Safety Code. Where the Owner prefers not to provide an approved electrical vault, the Distributor at additional cost can provide a metering unit with non-flammable coolant.

Non-residential or mixed-use buildings will normally be bulk metered by a single meter. However, where specific areas are clearly and permanently defined and in other respects as a separate entity, individual metering of the loads will be considered.

In all installations where the Customer requests revenue metering remote from the secondary entrance equipment or downstream from a Customer-owned dry-core transformer, provisions are required for a bulk meter directly after the main switch. This bulk metering is required in addition to any public metering provisions. The Customer will be required to contribute to the cost of the metering installation.

Where more than one meter exists, the meters shall be grouped where practicable.

The customer/contractor shall permanently and legibly identify all metered services with respect to correct municipal 911 address and unit #. The identification shall be applied to all service switches and breakers and to all meter cabinets and meter mounting devices that are not immediately adjacent to the service switch. The customer/contractor shall insure that all service identifications are accurate and by not doing so will be held totally responsible. The Distributor shall issue a Meter Verification Sheet for this purpose to the owner or contractor.

In any case, a copy of the metering layout plan shall be forwarded to the Distributor for review and approval.

If the distribution of the metered load circuit is in dispute, (ie: circuits from one premise is found to supply a second premise) the Distributor reserves the right to transfer all accounts into the Property Owners' name until such time as the problem has been resolved, and the individual metering can be clearly identified with the individual units.

2.3.7.1.5 Locks

All devices on the line side of the Distributor metering shall have provisions for padlocking.

For commercial and industrial services the Customer's main switch shall have provisions for padlocking the switch handle in the open position and the switch cover or door in the closed position.

COS Version 5.3a Page- 19 -



Cornerstone Hydro Electric Concepts Association Inc.



When a disconnect device has been locked in the "OFF" position by the Distributor, under no circumstances shall anyone remove the lock and energize it without first receiving approval from the Distributor.

At the discretion of the Distributor, a dual locking arrangement, a Distributor master key arrangement, a key box arrangement, or a copy of the access key will be required for access.

2.3.7.2 Current Transformer Boxes

Where a current transformer box is required, it shall be CSA approved, of a size and type as stipulated by the Distributor, and include a provision for padlocks. A removable plate shall be provided in the box for mounting the equipment.

As an alternative to a separate CT box and meter, a single enclosure combining both functions may be feasible. Contact the Distributor for details.

In cases where the CTs only meter a portion of the metal clad switchgear (such as house loads), a separate disconnect switch must be installed ahead of the metering compartment so that the service can be deenergized without any interruption to the main service supply.

Generally, one house load meter only will be allowed. Additional house load meters will require authorization from the Distributor.

Conductors should enter the current transformer box at the top and leave at the bottom, or vice versa. If this cannot be arranged, the next largest CT box must be used to enable conductors to be trained in place. Where parallel conductors are used, the sum of the conductors will determine the size of the CT box to use. In all cases the Customer shall supply suitable cable termination lugs.

On all electrical services that require current transformers and the neutral for metering, an isolated neutral block shall be provided in the current transformer box.

2.3.7.3 Interval Metering

<u>The Distribution System Code</u>, as amended from time to time, requires the Distributor to meter Customers of specific load levels with pulse-recording meters, or interval meters, which are interrogated remotely. The Distributor, at its' sole discretion, may also require such metering on any customer whose load characteristics may have a significant impact on the Net System Load Shape, or where reasonable access to the meter for the purpose of acquiring metering data may be limited due to location.

A customer that requests interval metering shall compensate a distributor for all incremental costs associated with that meter, including the capital cost of the interval meter, installation costs associated with the interval meter, ongoing maintenance (including allowance for meter failure), verification and re-verification of the meter, installation and ongoing provision of communication line or communication link with the customer's

COS Version 5.3a Page- 20 -



Cornerstone Hydro Electric Concepts Association Inc.



meter, and cost of metering made redundant by the customer requesting interval metering. The communication system utilized for interval meters shall be in accordance with the distributors' requirements.

Where such metering exists the Distributor will consider customer requests to provide a secondary pulse for load control or customer-owned metering at the customers' expense.

In keeping with the intent of the Legislation and accompanying amendments, once an interval meter installation is processed as part of the distributors' settlement process, and has affected the relevant changes to the distributors net system load, the installation must not be changed back to a non-interval meter installation.

Where a customer submits a request to read their own interval meter, the Distributor shall make this access available given the following conditions are met:

- The meter has the capability of read-only password protection
- The customer provides a signed copy of the "Interval Metering Access Agreement" to the Distributor.

2.3.7.3.1 Interval Metering Communications

- Solid-state recorders and/or Electronic Interval Meters installed by the Distributor have provision for remote interrogation over a telephone line. To accommodate this feature the Owner will provide shared access to a telephone line for the Distributors' metering purposes.
- At its' sole discretion, for metering installations where loss of metering data would cause a substantial impact on the Distributors Settlement System, the Distributor may require the phone line to be dedicated for metering purposes only.
- A voice quality telephone line, which is active 24 hours a day to the metering location extension jack, which is mounted on the metering board.
- Phone lines must be installed and functioning prior to the new service being energized.

2.3.7.4 Meter Reading

The Distributor will read all meters on a regularly scheduled basis whenever possible. If an actual meter reading is not obtained, the Customer shall pay a sum based on an estimated demand and/or energy for electricity used since the last meter reading.

2.3.7.5 Final Meter Reading

When a service is no longer required, or the Customer is switching Energy Providers, the Customer shall provide the Distributor sufficient notice of the date so that a final meter reading can be obtained. The Customer shall provide access to the Distributor or its agents for this purpose.

If a final meter reading is not obtained, the Customer shall pay a sum based on an estimated demand and/or energy for electricity used since the last meter reading.

COS Version 5.3a Page- 21 -



Cornerstone Hydro Electric Concepts Association Inc.



2.3.7.6 Faulty Registration of Meters

Metering electricity usage for the purpose of billing is governed by the Federal Electricity and Gas Inspection Act and associated regulations, under the jurisdiction of Measurement Canada, Industry Canada. The Distributors' revenue meters are required to comply with the accuracy specifications established by the regulations under the above Act.

In the event of incorrect electricity usage registration, the Distributor will determine the correction factors based on the specific cause of the metering error and the Customer's electricity usage history. The Customer shall pay for all the energy supplied, a reasonable sum based on the reading of any meter formerly or subsequently installed on the premises by the Distributor, due regard being given to any change in the character of the installation and/or the demand.

If the incorrect measurement is due to reasons other than the accuracy of the meter, such as incorrect meter connection, incorrect connection of auxiliary metering equipment, or incorrect meter multiplier used in the bill calculation, the billing correction will apply for the duration of the error. The Distributor will correct the bills for that period in accordance with the regulations under the Act. http://lois.justice.gc.ca/en/ShowFullDoc/cr/SOR-86-131///en?noCookie.

2.3.7.7 Meter Dispute Testing

The Distributor will attempt to resolve billing enquiries. However, to give Customers confidence in the accuracy of electricity meters, the Distributor will conduct an internal investigation to verify the accuracy of any meter the Customer believes to be recording incorrectly. If the internal investigation does not resolve the matter, the Customer or the Distributor may request Measurement Canada to test the meter. http://strategis.ic.gc.ca/epic/site/mc-mc.nsf/en/h_lm02112e.html.

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If the test indicates that the meter is not accurate, the Customer's historic billing will be adjusted, and the Distributor shall pay the full costs of the meter dispute testing.

2.3.7.8 Location

The location of the indoor or outdoor meter shall be readily accessible at all times and acceptable to the Distributor. If a meter is recessed or enclosed after installation, without the prior approval of the Distributor, the service may be subject to disconnection.

The location of the service entrance, routing of duct banks, metering, and all other works will be established through consultation with the Distributor. Failure to comply may result in relocation of the service plant at the Owner's expense.

COS Version 5.3a Page- 22 -



Cornerstone Hydro Electric Concepts Association Inc.



In all locations where Commercial/Industrial revenue metering is accessible to the general public, a lockable enclosure or a room for service equipment and meters, shall be provided by the Owner at the discretion of the Distributor, as follows:

- An electrical room reserved solely for metering equipment or
- Metal enclosed switchgear approved by the Distributor or
- A suitable metal metering cabinet or
- A vandal proof cage.

2.3.7.9 Meter Mounting Heights

Provision for metering shall facilitate a practical mounting height for revenue meters in compliance with all applicable codes and regulations.

2.3.7.10 Environment

The following requirements apply to the areas allocated for revenue metering.

The customer to the satisfaction of the Distributor shall provide where there is the possibility of danger to workmen, or damage to equipment from moving machinery, dust, fumes, or moisture, protective arrangements.

A clear safe working space of not less than 1.2 m (48") in front of the installation from the floor to ceiling with a minimum ceiling height of 2.1 m (84") provided to insure the safety of the Distributor or other authorized employee(s) who may be required to work on the installation.

Where excessive vibration may affect or damage metering equipment, adequate shock-absorbing mounting shall be provided and installed by the customer.

2.3.7.11 Meter Sockets

The owner will supply and install a meter socket as specified by the Distributor. Meter sockets will be directly accessible to the Distributors' staff.

A listing of approved revenue metering sockets is available from the Distributor.

2.3.7.12 Cabinets

Where required by these Conditions of Service the Owner shall supply and install a meter cabinet to The Distributors' requirements.

COS Version 5.3a Page- 23 -



Cornerstone Hydro Electric Concepts Association Inc.



Meter cabinets shall be installed indoors, except where special permission is granted by the Distributor to install the meter cabinet outside. In such cases, an approved weather proof, lockable, C.S.A. approved meter cabinet shall be provided by the Customer.

2.3.7.13 Metering Loops

Three-phase, four-wire services will require a loop for metering, within the meter cabinet, for all three phases.

Mineral insulated, solid, or hard drawn wire conductors are not acceptable as metering loops.

2.3.7.14 Metal Enclosed Switchgear

The following regulations apply to the installation of instrument transformers and metering equipment within metal enclosed switchgear.

The Distributor will provide the following revenue metering equipment as required:

- Colour coded secondary wiring
- Revenue meters

The Owner shall:

- Consult with The Distributor regarding the metering equipment to be provided which may include,
 - Potential transformers
 - o Potential transformer fuse holders and fuses
 - Current transformers
 - o Phone line for remote interrogation of meters
 - o Duplicate Pulse Initiators
 - o Provide complete shipping instructions for instrument transformers for those projects where these are to be provided by the Distributor for installation by the switchboard manufacturer.
 - o Install instrument transformers, metering cabinet and conduit.
 - o Each main bus bar to be drilled and tapped (10-32) or (10-24) on the line side of the removable current transformer link.
- Submit two copies of the manufacturer's switchboard drawings, for approval, dimensioned to show provision for and arrangement of The Distributors' metering equipment.

Meters shall be installed by the Distributor in a customer-owned metal cabinet of a size and type pre-approved by the Distributor, mounted at an approved location separate from the switchgear.

COS Version 5.3a Page- 24 -



Cornerstone Hydro Electric Concepts Association Inc.



Tamper proof or sealable rigid conduit or any equally approved conduit of a size and type specified by the Distributor shall be installed between the CT compartment of the switchgear and the meter cabinet.

For conduit installations greater than 30 m (100'), in length or where several bends are necessary, larger conduits or other special provision may be required, at the discretion of the Distributor.

2.3.7.15 Switchgear Connected to Wye Source

Where a Wye source neutral connection is to be used or grounded, the Owner shall provide a conductor sized to the requirements of the <u>Ontario Electrical Safety Code</u> from the instrument transformer compartment to the neutral connection.

2.3.7.16 Four Quadrant Metering (Generation)

All Ontario Energy Board-licensed generators connected to the distribution system that sell energy and settle through the distributor's retail settlement process shall be required to install metering that meets the requirements of the <u>Distribution System Code</u> as approved by the Ontario Energy Board, and/or the Market Rules as approved by the Independent Electricity Market Operator. http://www.ieso.ca/

2.4 Tariffs and Charges

2.4.1 Service Connection

Charges for Service Connections are set out in the Distributors approved rates, (Miscellaneous Rates and Charges) and may be obtained by request from the Distributor. Notice of Rate revisions may be published in the local newspapers and or mailed out to all customers with the first billing issued at revised rates.

2.4.2 Energy Supply

The Distributor shall provide Customers connected to the Distribution System with access to electricity through Standard Supply Service as defined in the <u>Retail Settlement Code</u> published by the OEB or as mandated though Legislation or Regulations issued by the Ministry of Energy.

Disputes arising from charges relating to Standard Supply Service shall be directed to the Distributor.

Customers will be switched to their Retailer of choice only if the retailer has a Service Agreement with the Distributor. The Customer's authorized Retailer through the Electronic Business Transaction system (EBT) must make the Service Transfer Request (STR) in accordance with the rules established and amended from time to time by the Ontario Energy Board.

Disputes arising from charges relating to Retailer Service shall be directed to the Retailer.

COS Version 5.3a Page- 25 -



Cornerstone Hydro Electric Concepts Association Inc.



The Distributor may, at its discretion, refuse to process a Service Transfer Request for a Customer to switch to a Retailer if that Customer owes money to the Distributor for Distribution Services and or Standard Supply Service.

2.4.2.1 Wheeling of Power

Customers considering delivery of electricity through the Distributors' Distribution System shall contact the Distributor for technical requirements and current applicable Rates.

2.4.3 Supply Deposits & Agreements

Whenever required by the Distributor, the Customer shall provide and maintain security in an amount that the Distributor has been mandated to collect, or deems necessary and reasonable. The Distributor shall require security amounts based on the existing security and deposit policies. The current deposit policy shall be provided to the Customer upon request.

Where a customer proposes the development of premises that requires the Distributor to place equipment orders for special projects, the customer is required to sign the necessary Supply Agreements and furnish a suitable deposit before such equipment is ordered by the Distributor.

2.4.4 Billing

The Distributor may, at its option, render bills to its Customers on either a monthly, bi-monthly, quarterly or annual basis. The option applicable to the customer shall be identified to the customer at the time of application for service.

Prorating of Service and Demand charges will be performed at the discretion of the Distributor.

2.4.4.1 Competitive Charges:

Are based on rates as determined by:

- i. the Hourly Ontario Spot Market Price (HOEP); or
- ii. the utilities Weighted Average Price (WAP) as determined by net system load; or
- iii. the customers retailer contract rate; or
- iv. the rates published by the OEB; or
- v. Legislation or Regulations issued by the Ministry of Energy.

COS Version 5.3a Page- 26 -



Cornerstone Hydro Electric Concepts Association Inc.



2.4.4.2 Non-competitive Charges:

Are based on rates approved by the Ontario Energy Board, and fall outside the scope of this document. Approved rates as they relate to the transmission, distribution and other non-competitive elements may be attained through the utilities rate documents. These documents will be provided by the utility at the customer's request.

2.4.4.3 Billable Engineering Units:

Customers will be billed on:

- i. actual or estimated meter reading data; or
- ii. derived consumption data (Streetlights, sentinel lights and other scattered loads); or
- iii. a flat rate, depending on the type of load being billed.

2.4.4.4 Use of Estimates:

In months where a bill is issued, but no reading is obtained, the Distributor estimates usage in order to determine billing quantities. The estimate is based on historical usage for the premise, or a pre-determined quantity if there is no historical usage information available.

2.4.5 Payments and Late Payment Charges

Bills are rendered for distribution services and electrical energy used by the Customer. Bills are payable in full by the due date.

Bills are due when rendered by the utility. A customer may pay the bill without the application of a late payment charge up to a due date, which shall be a minimum of sixteen calendar days from the date of mailing or hand delivery of the bill. This due date shall be identified clearly on the customer's bill.

Where payment is made by mail, payment will be deemed to be made on the date post-marked. Where payment is made at a financial institution acceptable to the utility, payment will be deemed to be made when stamped/acknowledged by the financial institution or an equivalent transaction record is made.

A partial payment will be applied to any outstanding arrears before being applied to the current billing, unless special considerations have been made by the utility.

Outstanding bills are subject to the collection process and may ultimately lead to the service being discontinued or limited. Service will be restored once satisfactory payment has been made. Discontinuance of service does not relieve the Customer of the liability for arrears.

The Distributor shall not be liable for any damage on the Customer's premises resulting from such discontinuance of service. A reconnection charge may apply where the service has been disconnected due to non-payment.

COS Version 5.3a Page- 27 -



Cornerstone Hydro Electric Concepts Association Inc.



The Customer will be required to pay additional charges for the processing of non-sufficient fund (N.S.F.) cheques.

2.4.6 Unauthorized Energy Use

The Distributor shall use its discretion in taking action to mitigate unauthorized energy use. Upon identification of possible unauthorized energy use, the Distributor shall notify, if appropriate, Measurement Canada, The Electrical Safety Authority, Police Officials, Retailers that service customers affected by an authorized energy use, or other entities.

The Distributor may recover from the parties responsible for the unauthorized energy use all costs incurred by the Distributor arising from unauthorized energy use, including an estimate of the energy used, inspection and repair costs.

A service disconnected due to unauthorized use of energy shall not be reconnected until such time as all arrears resulting from the unauthorized use has been resolved to the satisfaction of the Distributor.

Prior to reconnection, the Distributor shall require proper authorization from applicable authorities.

2.5 Customer Information

The Distributor reserves the right to request specific information from the customer in order to facilitate the normal operation of its business. Failure of a customer to supply such information may prevent the normal continuation of service.

The <u>Retail Settlement Code</u> as amended from time to time specifies the rights of customers and their retailers to access current and historical usage information and related data and the obligations of distributors in providing access to such information.

Under these requirements, the Distributor shall upon authorization by a customer make the following information available to the Customer or the Retailer that provides electricity to a customer connected to the Distributors' distribution system:

- The Distributors' account number for the customer,
- The Distributors' meter number for the meter or meters located at the customer's service address
- The customer's service address.
- The date of the most recent meter reading,
- The date of the previous meter reading,
- Multiplied kilowatt-hours recorded at the time of the most recent meter reading,
- Multiplied kilowatt-hours recorded at the time of the previous meter reading,
- Multiplied kW for the billing period (if demand metered),
- Multiplied kVA for the billing period (if available),
- Usage (kWh's) for each hour during the billing period for interval-metered customers

COS Version 5.3a Page- 28 -



Cornerstone Hydro Electric Concepts Association Inc.



- An indicator of the read type (e.g., distributor read, consumer read, distributor estimate, etc.)
- Average distribution loss factor for the billing period

This information will be provided to the Customer / Retailer upon request twice per year at no charge. The Distributor may request a fee to recover costs for additional requests. A request is considered to be data delivered to a single address. Thus, a single request to send information to three locations is considered three requests.

The Distributor acknowledges that no confidential information regarding its' customers shall be released to a third party without the expressed prior written consent of the customer unless the request is rightfully received from the third party requesting the information, or the Distributor is legally required to disclose such information under the terms and in accordance with the Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. F.31.

HOTLINK http://www.privcom.gc.ca/legislation/02_07_01_e.asp

COS Version 5.3a Page- 29 -



Cornerstone Hydro Electric Concepts Association Inc.



SECTION 3 CUSTOMER SPECIFIC

3.1 Residential

This section refers to the supply of electrical energy to Customers residing in residential dwelling units.

3.1.1 General

Energy is generally supplied as single phase, 3-wire, 60-Hertz, having a nominal voltage of 120/240 Volts.

There shall be only one Delivery Point to a dwelling.

In circumstances where two existing services are installed to a dwelling, and one service is to be upgraded, the upgraded service will replace both of the existing services.

All new single-family homes will be required to install their primary and secondary service wires to the specifications contained within the Distributors' technical specification document.

Whether the method of supply will be overhead or underground will be at the discretion of the distributor. The Distributor will adhere to any existing regulations subject to requirements of authorities.

Unless specifically documented otherwise to the Customer, where the distributor has taken ownership of such plant all services installed by the Distributor or by an approved contractor using approved materials, will be maintained by the Distributor.

3.1.2 Early Consultation

The Customer shall supply a completed <u>Site Planning document</u> and related information to the Distributor well in advance of installation commencement. (see appendix) The information shall be supplied in a manner requested by the Distributor at the time of the application.

3.1.3 Standard Connection Allowance

For the purposes of calculating customer connection fees, the Basic Connection for Residential consumers is defined as 100 amp 120/240 volt overhead service.

The basic connection for each customer shall include;

- i. supply and installation of overhead distribution transformation capacity or an equivalent credit for transformation equipment; and
- ii. up to 30 meters of overhead conductor or an equivalent credit for underground services.

COS Version 5.3a Page- 30 -



Cornerstone Hydro Electric Concepts Association Inc.



In the case of an upgrade to an existing service, where the existing service is below the basic connection, the credit up to the basic connection will apply.

Secondary services exceeding the basic 30 meter length may require specific design approved by the Distributor to ensure power quality.

3.1.4 Variable Connection Fees

Any requirements above the defined basic connection shall be subject to a variable connection charge to be calculated as the costs associated with the installation of connection assets above and beyond the basic connection. The distributor may recover this amount from a customer through a connection charge or equivalent payment.

3.1.5 Point of Demarcation

In all cases the final Demarcation Point will be the decision of the Distributor.

The Customer must obtain a Demarcation Point Location from the Distributor before proceeding with the installation of any service. Failure to do so may result in the Demarcation Point having to be relocated at the Customer's expense.

Maintenance of the portion of the Secondary Service owned by the Distributor includes repair and like-forlike replacement of a wire or cable that has failed irreparably. The Customer is responsible for all civil work, supports, vegetation and landscaping associated with any such repair or replacement of the portion of Secondary Service owned by the Distributor.

3.1.5.1 Secondary Service Connections

The Point of Demarcation for residential services up to 400 amps is at the line side of the Meter Base for Underground services, and at the top of the stack for Overhead services, beyond which the customer bears full responsibility for installation and maintenance.

The Point of Demarcation for residential services over 400 amps is at the secondary side of the transformer.

For Secondary Services wholly owned and maintained by the Customer, the <u>Demarcation Point</u> is the secondary connection at the transformer or the service bus.

COS Version 5.3a Page- 31 -



Cornerstone Hydro Electric Concepts Association Inc.



The Customer shall install, own, and maintain the secondary conductor under any of the following conditions:

- (a) conductor terminations are inside the Customer's building;
- (b) conductor is installed beyond the service entrance;
- (c) conductor is connected to a Primary Service; or
- (d) conductor is a non-standard installation.

3.1.5.2 Primary Service Connections

For Primary Service, the <u>Demarcation Point</u> is the primary connection at the Distributor's Distribution system.

3.1.6 Supply Voltage

- (a) A Residential building is supplied at one service voltage per land parcel.
- (b) Depending upon the location of the building the supply voltage will be one of the following:
 - o 120/240 Volts 1 Phase 3 Wire
 - o 120/208 Volts 1 Phase 3 Wire
 - o 120/208 Volts 3 Phase 4 Wire
 - o 347/600 Volts 3 Phase 4 Wire
- (c) The Owner shall make provision to take delivery at one of the nominal utilization voltages as specified by the Distributor. The Owner shall obtain prior approval from the Distributor for the use of any specific voltage at any specific location.

3.1.7 Access:

At the Distributors discretion, service locations requiring access to adjacent properties (mutual drives, narrow side setbacks, etc.) will require the completion of an easement in the Distributors' name, or a "Letter of Permission "from the property owner(s) involved.

The Customer will provide unimpeded and safe access to the Distributor at all times for the purpose of installing, removing, maintaining, operating or changing metering and distribution equipment.

3.1.8 Metering:

The owner will supply and install a meter socket complete with collar acceptable to the Distributor. Meter sockets will be directly accessible to the Local Distribution Company and:

COS Version 5.3a Page- 32 -



Cornerstone Hydro Electric Concepts Association Inc.



- Mounted 1.7 meters from the finished grade to the center of the meter and, either on the exterior of the front of the building or, within 3 meters of the front of the building on the driveway side.
- Installed ahead of (on the line side of) the main disconnect switch.
- Installed in a location, which is and will remain unobstructed by fences, hedges, expansions, sunrooms, porch enclosures, and any other impediments.
- If the meter is not to be installed on the actual building, it is important to contact the Distributor for specific location instructions prior to installation.

For more details refer to section 2.3.7 in these Conditions of Service.

3.1.9 Overhead Service

The Owner will provide service equipment to both the Distributors' and ESA requirements, and be of sufficient height to maintain proper minimum clearances. The Owner's main switch and the overhead service conductors will be of compatible capacity.

3.1.10 Underground Service

Underground secondary services will be installed at the Owners' expense, to the Distributor's specifications. The Owner's main switch and the underground service conductors will be of compatible capacity.

3.1.11 Street Townhouses and Condominiums:

NOTE: Street Townhouses and Condominiums requiring centralized bulk metering will be covered under section 3.2 of these Conditions of Service. Also 3.1.11.2

3.1.11.1 Service Information:

The Owner will enter into a Servicing Agreement with the Distributor, governing the terms and conditions under which the electrical distribution system and services will be designed and installed.

The Owner will provide all of the civil works to accommodate the Distributor and will pay the complete cost of the electrical distribution system, design and services.

- The distribution system and services shall be underground unless otherwise approved.
- One service will be provided for each unit.
- The nominal service voltage will be 120/240 volts, 1 phase, 3 wire.
- The Distributor will approve the location of duct banks, service routings and meter bases.
- Distribution plant shall not be installed until grade is at +/- 150 mm of final grade unless otherwise approved by the Distributor.
- Street lighting will be to Municipal standards and installed at the Owner's expense.

COS Version 5.3a Page- 33 -



Cornerstone Hydro Electric Concepts Association Inc.



3.1.11.2 Metering:

The Owner will supply and install meter sockets specified by the Distributor.

Multiple or grouped meter bases will be accepted only when prior approval has been given by the Distributor both as to type and proposed location. A completed meter verification form shall be provided to the distributor prior to energization.

Meter sockets will be located on the exterior front wall of the units and will be directly accessible to the Distributor.

- Mounted on the front wall 1.7 metres above finished grade to the centre of the meter
- Installed ahead of (on the line side of) the main disconnect switch
- Installed in a location, which is and will remain unobstructed by fences, hedges, expansions, sunrooms, porch enclosures, and any other impediments.
- If the meter is not to be installed on the actual building, it is important to contact the Distributor for specific location instructions prior to installation.

Normally the service will not be energized until the outside finish in the area of the revenue meter has been completed. If exceptions are made to this, then the general contractor will be responsible for ensuring that the meter is suitably protected while work is being done on the exterior wall adjacent to the meter. The general contractor will be entirely responsible for all costs for materials and labour for repairing or replacing a damaged meter.

3.1.12 Seasonal and Remote Dwellings:

Due to the varied nature of Seasonal and Remote Dwellings some special arrangements may be required to service these locations. Arrangements will be made in such a manner to provide services such as restoring power, maintenance of equipment or new construction requests to water access or remote customers, without endangering personnel or the public.

3.1.12.1 Service Information:

The Owner will enter into a Servicing Agreement with the Distributor, governing the terms and conditions under which the electrical distribution system services will be provided.

In the event of a power interruption, the Distributor will respond to and take reasonable steps to restore power. The Distributor reserves the right to recover costs from the customer for making false claims of interruptions.

COS Version 5.3a Page- 34 -



Cornerstone Hydro Electric Concepts Association Inc.



3.1.12.2 Access:

• Night crossings

The Distributors' transportation equipment will not be used to cross any water ½ hour before sunset and ½ hour after sunrise due to safety concerns. It will be at the discretion of the Distributor whether they will board customer owned transportation equipment in these circumstances.

Ice conditions

Recognizing seasonal ice hazards, the Distributor reserves the right to suspend water passage during freeze up and spring thaw, as well as any such time deemed unsafe by the Distributor.

• Severe weather conditions

Recognizing that severe weather conditions may pose undue safety hazards, the Distributor reserves the right to postpone attempts to restore power until restoration can be performed in a safe manner.

3.1.13 Inspection:

Prior to connection of the service the Local Distribution Company requires notification from the Electrical Safety Authority that the electrical installation has been inspected and approved for connection.

Provision for metering shall be inspected and approved by the Distributor prior to connection.

The Distributor or Distributor-approved Contractor generally installs all services. All work done shall be as per the specifications of the Distributor and subject to inspection by the Distributor.

(Refer to section 2.1.4 for further inspection details)

COS Version 5.3a Page- 35 -



Cornerstone Hydro Electric Concepts Association Inc.



3.2 General Service (Below 50 kW)

3.2.1 General

This section refers to the supply of electrical energy to General Service Buildings requiring a connection with a connected load less than 50 kW, and, Town Houses and Condominiums described in section 3.1.8 that require centralized bulk metering.

General Service buildings are defined as buildings that are used for purposes other than single-family dwellings.

3.2.2 Early Consultation

Detailed regulations cannot be stated which would be applicable to all cases, therefore the Owner will consult with the Distributor in the early planning stages to ascertain the Distributors' requirements.

The Owner shall supply a completed <u>Electrical Planning Requirements Form</u> to the Distributor well in advance of installation commencement to allow the Distributor time for proper planning, ordering of equipment etc.

3.2.3 Standard Connection Allowance

All costs attributed to the connection of a new General Service customer (Below 50 kW) shall be recovered through a variable connection Fee.

3.2.4 Variable Connection Fees

All costs associated with the installation of connection assets shall be subject to a variable connection charge. The distributor may recover this amount from a customer through a connection charge or equivalent payment.

3.2.5 Point of Demarcation

In all cases the final Demarcation Point will be the decision of the Distributor.

The Customer must obtain a Demarcation Point Location from the Distributor before proceeding with the installation of any service. Failure to do so may result in the Demarcation Point having to be relocated at the Customer's expense.

Maintenance of the portion of the Secondary Service owned by the Distributor includes repair and like forlike replacement of a wire or cable that has failed irreparably. The Customer is responsible for all civil work,

COS Version 5.3a Page- 36 -



Cornerstone Hydro Electric Concepts Association Inc.



supports, vegetation and landscaping associated with any such repair or replacement of the portion of Secondary Service owned by the Distributor.

The Distributor shall perform the maintenance or replacement of all underground looped cables that form part of the Distribution plant circuits. Following maintenance, surface restoration by the Distributor will include only soil, sod, gravel or asphalt.

Where damage can be shown to be the Owner's liability, maintenance and repair are at the Owners' expense

3.2.5.1 Secondary Service Demarcations

A General Service Customer <u>Demarcation Point</u> is at the secondary side of the transformer, or as otherwise set by the distributor, beyond which the customer bears full responsibility for installation and maintenance.

In some instances, where it is in the best interest of the operation of the distribution system, the Distributor may establish the Demarcation Point at the top of stack for overhead services or at the meter base for underground services.

The Demarcation Point might be located on an adjacent property. In such cases, a registered easement must exist.

3.2.5.2 Primary Service Demarcations

For Primary Service, the Demarcation Point is the primary connection at the Distributor's Distribution system.

3.2.6 Supply Voltage

- (a) A General Service building is supplied at one service voltage per land parcel.
- (b) Depending upon the location of the building the supply voltage will be one of the following:
 - o 120/240 Volts 1 Phase 3 Wire
 - o 120/208 Volts 1 Phase 3 Wire
 - o 120/208 Volts 3 Phase 4 Wire
 - o 347/600 Volts 3 Phase 4 Wire
- (c) The Owner shall make provision to take delivery at one of the nominal utilization voltages as specified by the Distributor. The Owner shall obtain prior approval from the Distributor for the use of any specific voltage at any specific location.

COS Version 5.3a Page- 37 -



Cornerstone Hydro Electric Concepts Association Inc.



3.2.7 Access:

At the Distributors discretion, service locations requiring access to adjacent properties (mutual drives, narrow side setbacks, etc.) will require the completion of an easement in the Distributors' name, or a "Letter of Permission "from the property owner(s) involved.

The Customer will provide unimpeded and safe access to the Distributor at all times for the purpose of installing, removing, maintaining, operating or changing metering and distribution equipment.

3.2.8 Metering:

The owner will supply and install a meter socket complete with collar acceptable to the Distributor. Meter sockets will be directly accessible to the Distributor and unless otherwise specified during the early consultation process:

- Mounted 1.7 meters from the finished grade to the center of the meter and, either on the exterior of the front of the building or, within 3 meters of the front of the building on the driveway side.
- Installed ahead of (on the line side of) the main disconnect switch.
- Installed in a location, which is and will remain unobstructed by fences, hedges, expansions, sunrooms, porch enclosures, and any other impediments.
- If the meter is not to be installed on the actual building, it is important to contact the Distributor for specific location instructions prior to installation.

For more details refer to section 2.3.7 in these Conditions of Service.

3.2.9 Overhead Service:

In circumstances where Commercial buildings cannot reasonably be supplied electrical energy by an underground service, the Distributor shall use its' sole discretion based on acceptable industry practices in establishing the specific requirements for the service installation.

3.2.10 Underground Service:

Under normal circumstances, Commercial buildings are supplied electrical energy by an underground service through a single point of entry for each land parcel, at a location specified by the Distributor.

3.2.11 Supply of Equipment:

The Distributor supplies, installs and maintains subject to the variable connection fee:

• Primary switchgear.

COS Version 5.3a Page- 38 -



Cornerstone Hydro Electric Concepts Association Inc.



- Primary transformation equipment.
- Meter and secondary metering transformers.

The Owner shall supply, install and maintain any additional equipment required for the connection beyond the point of Demarcation.

3.2.12 Inspection:

Prior to connection of the service the Local Distribution Company requires notification from the Electrical Safety Authority that the electrical installation has been inspected and approved for connection.

Provision for metering shall be inspected and approved by the Distributor prior to connection.

The Distributor or Distributor-approved Contractor generally installs all services. All work done shall be as per the specifications of the Distributor and subject to inspection by the Distributor.

(Refer to section 2.1.4 for further inspection details)

COS Version 5.3a Page- 39 -



Cornerstone Hydro Electric Concepts Association Inc.



3.3 General Service (Above 50 kW)

3.3.1 General

This section refers to the supply of electrical energy to General Service Customers requiring a connection with a connected load greater than 50 kW.

3.3.2 Early Consultation

Detailed regulations cannot be stated which would be applicable to all cases, therefore the Owner will consult with the Distributor in the early planning stages to ascertain the Distributors' requirements.

The Owner shall supply a completed <u>Electrical Planning Requirements Form</u> to the Distributor well in advance of installation commencement to allow the Distributor time for proper planning, ordering of equipment etc.

3.3.3 Standard Connection Allowance

All costs attributed to the connection of a new General Service customer (Above 50 kW) shall be recovered through a variable connection fee.

3.3.4 Variable Connection Fees

All costs associated with the installation of connection assets shall be subject to a variable connection charge. The distributor may recover this amount from a customer through a connection charge or equivalent payment.

3.3.5 Point of Demarcation

In all cases the final Demarcation Point will be the decision of the Distributor.

The Customer must obtain a Demarcation Point Location from the Distributor before proceeding with the installation of any service. Failure to do so may result in the Demarcation Point having to be relocated at the Customer's expense.

Maintenance of the portion of the Secondary Service owned by the Distributor includes repair and like forlike replacement of a wire or cable that has failed irreparably. The Customer is responsible for all civil work, supports, vegetation and landscaping associated with any such repair or replacement of the portion of Secondary Service owned by the Distributor.

The Distributor shall perform the maintenance or replacement of all underground looped cables that form

COS Version 5.3a Page- 40 -



Cornerstone Hydro Electric Concepts Association Inc.



part of the Distribution plant circuits. Following maintenance, surface restoration by the Distributor will include only soil, sod, gravel or asphalt.

Where damage can be shown to be the Owner's liability, maintenance and repair are at the Owners' expense

3.3.5.1 Secondary Service Connections

A General Service Customer Demarcation Point for customers above 50 kW is at the secondary side of the transformer, or as otherwise set by the distributor, beyond which the customer bears full responsibility for installation and maintenance.

In some instances, where it is in the best interest of the operation of the distribution system, the Distributor may establish the Delivery point at the top of stack for overhead services or at the meter base for underground services.

The location of the service entrance, routing of duct banks and all other works will be established through consultation with the Distributor. Failure to comply may result in relocation of the service plant at the Owner's expense.

The Demarcation Point might be located on an adjacent property. In such cases, a registered easement must exist.

3.3.5.2 Primary Service Connections

For Primary Service, the <u>Demarcation Point</u> is the primary connection at the Distributor's Distribution system.

In some circumstances the owner may be required to construct a private pole line. Primary conductors will be terminated complete with cut-out(s) at the Demarcation Point by the Distributor at the owners' expense.

Where a private pole line is to be constructed by the Owner with an approved contractor, this shall be constructed to the ESA and the Distributors' requirements.

An electrical requirement in excess of 300 kVA may require a customer owned substation.

In some instances primary metering may be required.

3.3.6 Supply Voltage

A General Service building is supplied at one service voltage per land parcel. Depending upon the location of the building the supply voltage will be one of the following:

• 120/240 Volts 1 Phase 3 Wire

COS Version 5.3a Page- 41 -



Cornerstone Hydro Electric Concepts Association Inc.



- 120/208 Volts 3 Phase 4 Wire
- 347/600 Volts 3 Phase 4 Wire

Depending upon the location of the building Primary supplies to transformers and Customer owned Sub-Stations will be one of the following as determined by the Distributor:

- 2,400/4,160 volts 3 phase 4 wire
- 4,800/8,320 volts 3 phase 4 wire
- 7,200/12,400 volts 3 phase 4 wire
- 8,000/13,800 volts 3 phase 4 wire
- 16,000/27,600 volts 3 phase 4 wire
- 44.000 Volts 3 Phase 3 Wire

The Owner shall make provision to take delivery at one of the nominal utilization voltages as specified by the Distributor. The Owner shall obtain prior approval from the Distributor for the use of any specific voltage at any specific location.

3.3.7 Access:

At the Distributors discretion, service locations requiring access to adjacent properties (mutual drives, narrow side setbacks, etc.) will require the completion of an easement in the Distributors' name, or a "Letter of Permission "from the property owner(s) involved.

The Customer will provide unimpeded and safe access to the Distributor at all times for the purpose of installing, removing, maintaining, operating or changing metering and distribution equipment.

3.3.8 Metering:

Meter installations will be directly accessible to the Distributor. The owner will consult with the Distributor well in advance of installation commencement to allow the Distributor time for proper planning and ordering of equipment.

For more details refer to section 2.3.7 in these Conditions of Service.

3.3.9 Overhead Service:

In circumstances where Commercial buildings cannot reasonably be supplied electrical energy by an underground service, the Distributor shall use its' sole discretion based on acceptable industry practices in establishing the specific requirements for the service installation.

COS Version 5.3a Page- 42 -



Cornerstone Hydro Electric Concepts Association Inc.



3.3.10 Underground Service:

Under normal circumstances, Commercial buildings are supplied electrical energy by an underground service through a single point of entry for each land parcel, at a location specified by the Distributor.

3.3.11 Sub-transmission Service:

The Owner will pay for the full cost of sub-transmission services and may in some circumstances be required to construct a private pole line. The Distributor will terminate sub-transmission conductors complete with live line loops and hardware at the Demarcation Point.

3.3.12 Supply of Equipment:

The Distributor supplies, installs and maintains subject to the variable connection fee:

- Primary switchgear.
- Primary transformation equipment.
- Meter and secondary metering transformers.

The Owner shall supply, install and maintain any additional equipment required for the connection beyond the point of Demarcation.

3.3.13 Short Circuit Capacity:

The Owner shall ensure that the service entrance equipment has an adequate short-circuit interrupting capability.

3.3.14 Inspection:

Prior to connection of the service the Local Distribution Company requires notification from the Electrical Safety Authority that the electrical installation has been inspected and approved for connection.

Provision for metering shall be inspected and approved by the Distributor prior to connection.

The Distributor or Distributor-approved Contractor generally installs all services. All work done shall be as per the specifications of the Distributor and subject to inspection by the Distributor.

(Refer to section 2.1.4 for further inspection details)

COS Version 5.3a Page- 43 -



Cornerstone Hydro Electric Concepts Association Inc.



3.4 General Service (Above 500 kW)

3.4.1 General

This section refers to the supply of electrical energy to General Service Services requiring a connection at a connected load greater than 500 kW.

3.4.2 Early Consultation

Detailed regulations cannot be stated which would be applicable to all cases, therefore the Owner will consult with the Distributor in the early planning stages to ascertain the Distributors' requirements.

The Customer shall supply a completed <u>Electrical Planning Requirements Form</u> to the Distributor well in advance of installation commencement to allow the Distributor time for proper planning, ordering of equipment etc.

The Distributor will:

- Advise the customer of the suitability of the in-service date
- Arrange with the customer for a Service Contract
- Review the submitted drawings; return one set to the customer with comments and/or approval. If requested by the Distributor, the customer shall resubmit the drawings where the comments are extensive and require major changes
- Specify the required main fuse link or relay setting for co-ordination with the system. In case of multiple transformer stations, a complete co-ordination study shall be submitted by the customer for approval.
- *Make the final connection to the source of supply*
- Determine metering requirements
- Advise the Transmitter of the particulars of the customer owned substation

3.4.3 Standard Connection Allowance

All costs attributed to the connection of a new General Service customer (Above 500 kW) shall be recovered through a variable connection fee.

3.4.4 Variable Connection Fees

All costs associated with the installation of connection assets shall be subject to a variable connection charge. The distributor may recover this amount from a customer through a connection charge or equivalent payment.

COS Version 5.3a Page- 44 -



Cornerstone Hydro Electric Concepts Association Inc.



3.4.5 Point of Demarcation

In all cases the final Demarcation Point will be the decision of the Distributor.

The Customer must obtain a Demarcation Point Location from the Distributor before proceeding with the installation of any service. Failure to do so may result in the Demarcation Point having to be relocated at the Customer's expense.

Maintenance of the portion of the Primary Service owned by the Distributor includes repair and like for-like replacement of a wire or cable that has failed irreparably. The Customer is responsible for all civil work, supports, vegetation and landscaping associated with any such repair or replacement of the portion of Secondary Service owned by the Distributor.

The Distributor shall perform the maintenance or replacement of all underground looped cables that form part of the Distribution plant circuits. Following maintenance, surface restoration by the Distributor will include only soil, sod, gravel or asphalt.

Where damage can be shown to be the Owner's liability, maintenance and repair are at the Owners' expense

The Distributor reserves the right to direct the operations of any customer owned switchgear connected to the distribution system including those located beyond the point of demarcation.

3.4.5.1 Service Installation

In General, the <u>Demarcation Point</u> for a General Service Customer with a demand of over 500 kW is on the primary side of the transformer at the first available distributor owned point of isolation, or as otherwise set by the distributor. This delivery point might be located on an adjacent property from which the Distributor has an authorized easement. In all cases the final Demarcation Point will be the decision of the Distributor.

The location of the service entrance, routing of duct banks, metering facilities, and all other works will be established through consultation with the Distributor. Failure to comply may result in relocation of the service plant at the Owner's expense.

The Distributor will install overhead supply lines and required cut-outs to the first point of support on private property. The location of this support must be approved by the Distributor and shall be within 30 metres of the Distributors' existing overhead plant. All costs for materials and labour shall be at the customers' expense.

The service pole or first point of support on private property shall be considered self-supported and shall be complete with suitable hardware for attaching the suspension insulators. The Customer shall be responsible for all costs associated with equipment, installation, and inspection.

Where the customer wishes an underground supply, the customer shall supply and install the underground cables and termination pole complete with primary switch, fuses and lightning arresters. The installation shall be

COS Version 5.3a Page- 45 -



Cornerstone Hydro Electric Concepts Association Inc.



subject to ESA inspection and specific approval of the Distributor. The customer owned termination pole must comply with items as prescribed by the Distributor.

At the Distributors' discretion, the customers' underground service may be connected to a termination pole owned by the distributor. In such cases, the Distributor shall supply and install at the customers expense, any required primary switch, fuses, and lightning arrestors.

When requested, the customer shall make provision in the substation switchgear or transformer, for loop feeding the Distributors' supply cables via load interrupter switches.

In some instances, primary metering may be required.

3.4.6 Supply Voltage

A General Service building is supplied at one service voltage per land parcel.

General Service connections above 500 kW may require a customer owned substation.

Depending upon the location of the building, Primary supplies to transformers and Customer owned Sub-Stations will be one of the following as determined by the Distributor:

- 2,400/4,160 volts 3 phase 4 wire
- 4,800/8,320 volts 3 phase 4 wire
- 7,200/12,400 volts 3 phase 4 wire
- 8,000/13,800 volts 3 phase 4 wire
- 16,000/27,600 volts 3 phase 4 wire
- 44,000 Volts 3 Phase 3 Wire

The Owner shall make provision to take delivery at one of the nominal utilization voltages as specified by the Distributor. The Owner shall obtain prior approval from the Distributor for the use of any specific voltage at any specific location.

3.4.7 Access:

At the Distributors discretion, service locations requiring access to adjacent properties (mutual drives, narrow side setbacks, etc.) will require the completion of an easement in the Distributors' name, or a "Letter of Permission "from the property owner(s) involved.

The Customer will provide unimpeded and safe access to the Distributor at all times for the purpose of installing, removing, maintaining, operating or changing metering and distribution equipment.

Where the high voltage interrupting switches are located inside a building, a direct outside entrance to the switchgear room must be provided.

COS Version 5.3a Page- 46 -



Cornerstone Hydro Electric Concepts Association Inc.



The outside door providing direct access to the transformer or switchgear room must be compliant with all applicable codes and requirements, and of a quality to be approved by the Distributor.

3.4.8 Metering:

The owner will supply and install provisions for metering following the details outlined both in these Conditions of Service, and technical documents provided to the customer during the consultation process.

For more details refer to section 2.3.7 in these Conditions of Service.

3.4.9 Sub-transmission Service:

The Owner will pay for the full cost of sub-transmission services and may in some circumstances be required to construct a private pole line.

The Distributor will terminate sub-transmission conductors complete with live line loops and hardware at the Demarcation Point.

3.4.10 Short Circuit Capacity:

The Owner shall ensure that the service entrance equipment has an adequate short-circuit interrupting capability.

3.4.11 Drawings

Apart from the regular drawings submission to the ESA, the customer shall provide two sets of the following drawings and details to the Distributor.

<u>Survey Plan:</u> prepared by an Ontario Land Surveyor, showing the property limits, registered plan and existing buildings or easements if any.

<u>Site Plan:</u> showing the location of the station relative to buildings, structures and set backs from adjacent property lines. The site plan shall also include the exact location of existing Distributor owned plant and the proposed route of the incoming supply.

<u>Schematic or Single-Line Diagram:</u> indicating the major components of the station and their electrical ratings. Where additions or alterations are being made, these shall be clearly distinguished from unchanged portions of the installation.

<u>Electrical Details:</u> sufficient details shall be provided in order to enable fast processing and approval of the station drawings. The following represents the minimum data required.

COS Version 5.3a Page- 47 -



Cornerstone Hydro Electric Concepts Association Inc.



- Plan, elevation and profile views of the station structure, switchgear, transformer(s), termination poles, duct banks, etc.
- Dimensions to clearly indicate the electrical, physical and working clearances as well as relative location of all equipment.
- Pole or structure for dead-ending the Distributor lines shall be complete with suitable hardware for attaching the suspension insulators that will be supplied and installed by the Distributor.
- Fencing arrangement.
- Grounding details. (In the case of indoor metal enclosed switchgear, when the Distributor has operating control of any interrupter switches, the assembly shall further incorporate ground rod parking stands and stirrups per the Distributors Specifications.)
- Details of vault construction (if indoor substation).
- Manufacturer's drawings of metal-enclosed switchgear showing internal arrangement of equipment, clearances, means of access, interlocking and provision for personal safety. Where the Distributors' cables terminate in the switchgear, the customer shall provide suitable terminators for the size and type of cable as specified by the Distributor.
- When the customer's switchgear is used for loop feeding the Distributors' supply cables, provision for padlocking the in and out load interrupter switches and the associated bay doors shall be required.
- Indoor and outdoor switchgear assemblies shall contain a space heater and protective guard in each bay, along with thermostat(s), sized to promote air circulation and to prevent condensation from forming.
- At the discretion of the distributor, the customer shall make provisions for a future system neutral connection to the customer's dead-ending pole or structures installed by the Distributor. Where the Distributors' neutral terminates in the customer's switchgear, the customer shall provide a suitable connector on the ground bus for the size and type of cable specified by the Distributor.

3.4.12 Pre-Service Inspection

The customer shall present to the Distributor a final "Pre-service Inspection Report" a minimum of 3 working days before connection can be affected.

The "Pre-Service Inspection Report" shall outline and document the results of all tests and inspection carried out on the substation components. The information contained in the report must be to the satisfaction of the Distributor before connection can be authorized.

COS Version 5.3a Page- 48 -



Cornerstone Hydro Electric Concepts Association Inc.



The "Pre-Service Inspection Report" shall be required in case of:

- New Substation: in which case all components of the substation shall be reported upon.
- <u>Modified substation</u>: in which case all components of the substation shall be reported upon.

Prior to connection of the service the Local Distribution Company requires notification from the Electrical Safety Authority that the electrical installation has been inspected and approved for connection.

Provision for metering shall be inspected and approved by the Distributor prior to connection.

The Distributor or Distributor-approved Contractor generally installs all services. All work done shall be as per the specifications of the Distributor and subject to inspection by the Distributor.

(Refer to section 2.1.4 for further inspection details)

COS Version 5.3a Page- 49 -



Cornerstone Hydro Electric Concepts Association Inc.



3.5 Embedded Generation

3.5.1 General

An Embedded Generator shall provide the Distributor with proof of compliance of <u>IESO</u> or <u>OEB</u> registration Requirements, appropriate Licences and completion of an application form provided by the distributor.

The Distributor shall collect costs reasonably incurred with making an offer to connect a generator from the entity requesting the connection. Costs reasonably incurred include costs associated with:

- Preliminary review for connection requirements.
- Detailed study to determine connection requirements.
- Final proposal to the generator.

A Generator that is or wishes to become connected to the distributors' distribution system shall enter into a Connection Agreement with the Distributor.

If damage or increased operating costs result from a connection with a Generator, the Generator shall reimburse the Distributor for these costs.

The Embedded Generator is responsible for providing suitable embedded generator equipment to protect his plant and equipment for any conditions on the distributor and interconnected transmission systems such as reclosing, faults and voltage unbalance.

To incorporate the connection of embedded generator to the distribution system, the line/feeder protection including settings and breaker reclosing circuits must be reviewed and modified if necessary by the distributor or transmission authority. This process may be complex and may require significant time.

The embedded generator must submit a proposed single line diagram and protection scheme for review to the distributor contact as identified by the distributor.

Based on the transformer connection proposed by the embedded generator additional significant protection cost may be incurred (e.g. delta HV transformer winding may require 3 phase HV breaker / reclosure device). The embedded generator shall not order the protection equipment and transformer until the station line diagram is reviewed and accepted by the distributor.

The purpose of the distributor review is to establish that the embedded generator electrical interface design meets the distributor requirements.

The protection schemes shall incorporate adequate facilities for testing/maintenance.

Negative phase sequence protection shall be installed where required, to detect abnormal system condition as well as to protect the generator.

COS Version 5.3a Page- 50 -



Cornerstone Hydro Electric Concepts Association Inc.



The embedded generator may be required to install utility grade relays for those protections that could affect the distributor or transmission authority system.

The embedded generator may be required to submit a Ground Potential Rise study for review by the distributor, if telecommunications circuits are specified for remote transfer trip protection.

3.5.2 Protection

The embedded generator should provide protection systems to cover the following conditions:

3.5.2.1 Internal Faults:

The Generator should provide adequate protections to detect and isolate generator and station faults.

3.5.2.2 External Faults:

The protection system should be designed to provide full feeder coverage complete with a reliable DC supply. In some cases redundancy in protection schemes may be required.

Normally the following fault detection devices are required for synchronous generator(s) installation(s).

3.5.2.3 Ground Faults:

When the HV winding of the Generator station transformer is wye connected with the neutral solidly grounded, then ground over-current protection in the neutral is required to detect ground faults.

If the Embedded generator station transformer HV winding connected to the Distributor system is ungrounded wye or delta, then ground under-voltage and ground over-voltage protections shall be required to detect ground faults.

Depending on the size, type of generator and point of connection, a distributor may require the relaying system to be duplicated, complete with separate auxiliary trip relays and separately fused DC supplies to ensure reliable protection operation and successful isolation of the embedded generator.

3.5.2.4 Phase Faults:

To detect phase faults, at least one of the following protections should be installed with acceptable redundancy where required depending on fault values:

- Distance
- Phase directional over-current

COS Version 5.3a Page- 51 -



Cornerstone Hydro Electric Concepts Association Inc.



- Voltage-restrained over-current
- Over-current
- Under-voltage

3.5.2.5 Islanding/Abnormal Conditions:

Voltage and frequency protections are required to separate the embedded generator from the distribution system for an islanded condition and thus maintain the quality of supply to distribution system customers. This also will enable speedy restoration of the distribution system.

Typically, the protections required to detect islanding/abnormal conditions are:

- Over-voltage
- Under-voltage
- Over-frequency
- Under-frequency
- Voltage-balance

The above protections should be timed to allow them to ride through minor disturbances.

3.5.3 Induction Generator

Due to the operating characteristics of the induction generator the protection package required is normally less complex than the synchronous generator. An embedded generator should design the protection scheme to trip for the same conditions as stated for synchronous generators. An induction generator is an asynchronous machine that requires an external source such as a healthy distribution system to produce normal 60 Hz power. Alternatively, if there is an outage in the distribution system then there is unlikely to be 60 Hz output from the induction generator. In certain instances, an induction generator may continue to generate electric power after the source is removed. This phenomenon, known as self-excitation, can occur whenever there is sufficient capacitance in parallel with the induction generator to provide the necessary excitation and when the connected load has certain resistive characteristics.

3.5.4 DC Remote Tripping / Transfer Tripping

Remote or transfer tripping may be required between the Generator and the feeder circuit breaker if the Generator is connected at a critical location in the distribution system. This feature will provide for isolation of the embedded generator when certain faults or system disturbances are detected at the feeder circuit breaker location.

Additional Protection Features, such as Remote Trip and Generator end open signal, may be required in some applications.

COS Version 5.3a Page- 52 -



Cornerstone Hydro Electric Concepts Association Inc.



3.5.5 Maintenance

An Embedded Generator shall have a regular scheduled maintenance plan to assure the Distributor that all connection devices and protection & control systems are maintained in good working order. These provisions shall be included in the Connection Agreement. A complete copy of the inspection report shall be delivered to the Distributor within 30 days.

In developing a maintenance plan, the Generator should consider the following requirements:

- Qualified personnel should carry out all inspections and repairs.
- Periodic tests should be performed on protection systems to verify that the system operates as designed. Testing intervals for protection systems should not exceed four (4) years for microprocessor-based systems and two (2) years for electro-mechanical based systems.
- Isolating devices at the point of connection should be operated at least once per year.
- The Generator facility should be inspected visually at least once per year to note obvious maintenance problems such as broken insulators or other damaged equipment.
- Any deficiencies identified during inspections shall be noted and repairs scheduled as soon as possible, with timing dependent on the severity of the problem, due diligence concerns (of both the Distributor and the Generator) and financial and material requirements. The Distributor shall be notified of any deficiencies involving critical protective equipment.
- The Distributor shall be provided with copies of all relevant inspection and repair reports that may affect the protection and performance of the Distributors' systems. The Distributor has the right to witness any relevant test being performed by the generator.

COS Version 5.3a Page- 53 -



Cornerstone Hydro Electric Concepts Association Inc.



3.6 Embedded Market Participant

An Embedded Market Participant shall provide the Distributor with proof of compliance of <u>IESO</u> registration Requirements, and appropriate Licences.

Where the Conditions of Service of this Distributor exceed the technical requirements of any other licence or participant obligations, these Conditions of Service shall take precedence.

The Embedded Market Participant must meet at a minimum, the standards as set out in these Conditions of Service in order to connect to the Distributors' distribution facilities.

COS Version 5.3a Page- 54 -



Cornerstone Hydro Electric Concepts Association Inc.



3.7 Embedded Distributor

An Embedded Distributor shall provide the Distributor with proof of compliance of <u>IESO</u> and <u>OEB</u> registration Requirements, and appropriate Licences.

Where the Conditions of Service of this Distributor exceed the technical requirements of any other licence or participant obligations, these Conditions of Service shall take precedence.

The Embedded Distributor must meet at a minimum, the standards as set out in these Conditions of Service in order to connect to the Distributors' distribution facilities.

COS Version 5.3a Page- 55 -



Cornerstone Hydro Electric Concepts Association Inc.



3.8 Miscellaneous Small Services

This section pertains to the supply of electrical energy for Street Lighting, Traffic Signals, Bus Shelters, Telephone Booths, Cable T.V. Amplifiers, Decorative Street Lighting, Bill Boards, and other similar small loads.

3.8.1 General

At the discretion of the Distributor, the service voltage will be:

120/240 volts, single phase three wire or 120 volts, single phase two wire or 347/600V three phase, four wire

The method and location of the supply will vary based on the conditions present on the Distributors' plant, and will be established for each application through consultation with the Distributor.

Where specified by the Distributor during the Early Consultation process, the Customer will provide underground ducts to the Distributor's specifications.

The Owner shall be responsible for all costs associated with the supply and installation of service conductors

The Distributor at the Owners' expense will install required transformation.

Where at the discretion of the Distributor, a meter is not installed, energy consumption will based on the connected wattage and the calculated hours of use.

Prior to energization of a service the Distributor will require notification from the <u>ESA</u> that the installation has been inspected and approved for connection.

3.8.2 Early Consultation

The Owner shall supply a completed <u>Electrical Planning Requirements Form</u> to the Distributor well in advance of installation commencement to allow the Distributor time for proper planning, ordering of equipment etc. Information required includes:

- Required in-service date
- Requested Service Entrance Capacity and voltage rating of the service entrance equipment
- Locations of other services, gas, telephone, water and cable TV
- Survey plan and site plan indicating the proposed location of the service equipment with respect to public rights-of way and lot lines.

COS Version 5.3a Page- 56 -



Cornerstone Hydro Electric Concepts Association Inc.



3.8.3 Street Lighting

Town street-lighting that is designed, installed, and maintained by the Distributor shall be fully funded by the Municipality to ensure adherence to the <u>Affiliate Relationship Code</u> and the Distributors' Licence.

3.8.4 Traffic Signals

Traffic Signals and Crosswalk Lights are owned and maintained by the applicable road authority.

3.8.5 Bus Shelters

Bus Shelter Lighting is owned and maintained by the Customer.

3.8.6 Decorative Street Lighting

Such installations could be lighting for festive occasions or "neighbourhood character" street-scaping and will be maintained by the Customer.

COS Version 5.3a Page- 57 -



Cornerstone Hydro Electric Concepts Association Inc.



SECTION 4 GLOSSARY OF TERMS

- "Conditions of Service" means the document developed by the distributor in accordance with subsection 2.3 of the <u>Distribution System Code</u>, that describes the operating practices and connection rules for the distributor;
- "Condominiums" are located on common land, which is the property of a condominium corporation or is owned by the Owner of all of the units (rental property). These units usually front onto internal roads that are also privately owned;
- "Condominium Development" is a structure or complex of structures each containing more than two residential units. A single residential customer would occupy each unit and have direct outside access at ground level;
- "Connection" means the process of installing and activating connection assets in order to distribute electricity;
- "Connection Agreement" means an agreement entered into between a distributor and a person connected to its distribution system that delineates the conditions of the connection and delivery of electricity to or from that connection:
- "Connection assets" means that portion of the distribution system used to connect a customer to the existing main distribution system, and consists of the assets between the point of connection on a distributors' main distribution system and the ownership Demarcation Point with that customer;
- "Consumer" means a person who uses, for the person's own consumption, electricity that the person did not generate;
- "Customer" means a person that has contracted for or intends to contract for connection of a building or an embedded generation facility. This includes developers of residential or commercial sub-divisions;
- "Demand meter" means a meter that measures a consumers' peak usage during a specified period of time;
- **'Demarcation Point'** means the point at which the obligation of the Distributor ends and those of the Customer begin for the purposes of maintenance and repair of the distribution service;
- "Disconnection" means a deactivation of connection assets, which results in cessation of distribution services to a consumer;
- "Distribute", with respect to electricity, means to convey electricity at voltages of 50 kilovolts or less;
- **"Distribution losses"** means energy losses that result from the interaction of intrinsic characteristics of the distribution network such as electrical resistance with network voltages and current flows;

COS Version 5.3a Page- 58 -



Cornerstone Hydro Electric Concepts Association Inc.



- "Distribution loss factor" means a factor(s) by which metered loads must be multiplied such that when summed equal the total measured load at the supply point(s) to the distribution system.;
- "Distribution services" means services related to the distribution of electricity and the services the Board has required distributors to carry out.
- **'Distribution system / plant'** means a system for distributing electricity, and includes any structures, equipment or other things used for that purpose. A distribution system is comprised of the main system capable of distributing electricity to many customers and the connection assets used to connect a customer to the main distribution system;
- "<u>Distribution System Code</u>," means the code, approved by the Board, and in effect at the relevant time, which, among other things, establishes the obligations of a distributor with respect to the services and terms of service to be offered to customers and retailers and provides minimum technical operating standards of distribution systems;
- "Distributor" means a person who owns or operates a distribution system;
- "Electricity Act" means the Electricity Act, 1998, S.O. 1998, c.15, Schedule A;
- "Energy Competition Act" means the Energy Competition Act, 1998, S.O. 1998, c. 15;
- **"Electrical Safety Authority"** or "**ESA**" means the person or body designated under the *Electricity Act* regulations as the Electrical Safety Authority;
- **'Embedded Distributor'** means a distributor who is not a wholesale market participant and that is provided electricity by a host distributor;
- **"Embedded Generation Facility"** means a generator whose generation facility is not directly connected to the IESO-controlled grid but instead is connected to a distribution system;
- "Embedded Load Displacement Generation Facility" means an embedded generation facility connected to the customer side of the revenue meter where the generation facility does not inject electricity into the distribution system for the purpose of sale;
- **'Embedded Market Participant'** means a consumer who is a wholesale market participant whose facility is not directly connected to the IESO-controlled grid but is connected to a distribution system;
- "Emergency" means any abnormal system condition that requires remedial action to prevent or limit loss of a distribution system or supply of electricity, or that could adversely affect the reliability of the electricity system;
- **"Emergency backup generation facility"** means a generation facility that has a transfer switch that isolates it from a distribution system;

COS Version 5.3a Page- 59 -



Cornerstone Hydro Electric Concepts Association Inc.



- **"Enhancement"** means a modification to an existing distribution system that is made for purposes of improving system operating characteristics such as reliability or power quality or for relieving system capacity constraints resulting, for example, from general load growth;
- "Expansion" means an addition to a distribution system in response to a request for additional customer connections that otherwise could not be made; for example, by increasing the length of the distribution system;
- "Four-quadrant Interval Meter" means an interval meter that records power injected into a distribution system and the amount of electricity consumed by the customer;
- "Generate", with respect to electricity, means to produce electricity or provide ancillary services, other than ancillary services provided by a transmitter or distributor through the operation of a transmission or distribution system;
- "Generation Facility" means a facility for generating electricity or providing ancillary services, other than ancillary services provided by a transmitter or distributor through the operation of a transmission or distribution system, and includes any structures, equipment or other things used for that purpose;
- "Generator" means a person who owns or operates a generation facility;
- "Geographic Distributor" with respect to a load transfer, means the distributor that is licensed to service a load transfer customer and is responsible for connecting and billing the load transfer customer;
- "Good Utility Practice" means any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry in North America during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good practices, reliability, safety and expedition. Good utility practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in North America;
- "Holiday" means a Saturday, Sunday, statutory holiday, or any day as defined in the Province of Ontario as a legal holiday;
- "IESO" means the Independent Electricity System Operator established under the Electricity Act;
- "IESO-Controlled Grid" means the transmission systems with respect to which, pursuant to agreements, the IESO has authority to direct operation;
- "Interval meter" means a meter that measures and records electricity use on an hourly or sub-hourly basis;
- "Large Embedded Generation Facility" means an embedded generation facility with a name-plate rated capacity of 10MW or more;

COS Version 5.3a Page- 60 -



Cornerstone Hydro Electric Concepts Association Inc.



- "Lies Along" means a property can be connected to the distributor distribution system without an expansion or enhancement, and meets the conditions listed in the Conditions of Service of the distributor who owns or operates the distribution line.
- **"Load Transfer"** means a network supply point of one distributor that is supplied through the distribution network of another distributor and where this supply point is not considered a wholesale supply or bulk sale point;
- "Load Transfer Customer" means a customer that is provided distribution services through a load transfer;
- "Market Rules" means the rules made under section 32 of the *Electricity Act*;
- "Measurement Canada" means the Special Operating Agency established in August 1996 by the *Electricity* and Gas Inspection Act, 1980-81-82-83, c. 87., and Electricity and Gas Inspection Regulations (SOR/86-131);
- "Medium Sized Embedded Generation Facility" means an embedded generation facility with a nameplate rated capacity of less than 10 MW and:
 - a) more than 500 kW in the case of a facility connected to a less than 15kV line;
 - b) more than 1 MW in the case of a facility connected to a 15 kV or greater line;
- "Meter Service Provider" means any entity that performs metering services on behalf of a distributor, generator, or registered market participant;
- "Meter Installation" means the meter and, if so equipped, the instrument transformers, wiring, test links, fuses, lamps, loss of potential alarms, meters, data recorders, telecommunication equipment and spin-off data facilities installed to measure power past a meter point, provide remote access to the metered data and monitor the condition of the installed equipment;
- "Metering Services" means installation, testing, reading and maintenance of meters;
- "Micro Embedded Load Displacement Generation Facility" means an embedded load displacement generation facility with a name-plate rated capacity of 10 kW or less;
- "Ontario Electrical Safety Code" means the code adopted by O. Reg. 164/99 as the Electrical Safety Code;
- "Ontario Energy Board Act" means the Ontario Energy Board Act, 1998, S.O. 1998, c.15, Schedule B;
- "Operational Demarcation Point" means the physical location at which a distributors' responsibility for operational control of distribution equipment including connection assets ends at the customer;
- "Ownership Demarcation Point" means the physical location at which a distributors' ownership of distribution equipment including connection assets ends at the customer;

COS Version 5.3a Page- 61 -



Cornerstone Hydro Electric Concepts Association Inc.



- "Physical Distributor" with respect to a load transfer, means the distributor that provides physical delivery of electricity to a load transfer customer, but is not responsible for connecting and billing the load transfer customer directly;
- **"Point of Supply"** with respect to an embedded generation facility, means the connection point where electricity produced by the generation facility is injected into a distribution system;
- "Rate" means any rate, charge or other consideration, and includes a penalty for late payment;
- "Rate Handbook" means the document approved by the Board that outlines the regulatory mechanisms that will be applied in the setting of distributor rates;
- "Regulations" means the regulations made under the Act or the Electricity Act;
- "Retail", with respect to electricity means,
 - a) To sell or offer to sell electricity to a consumer
 - b) To act as agent or broker for a retailer with respect to the sale or offering for sale of electricity, or
 - c) To act or offer to act as an agent or broker for a consumer with respect to the sale or offering for sale of electricity.
- **'Retail Settlement Code'** means the code approved by the Board and in effect at the relevant time, which, among other things, establishes a distributors' obligations and responsibilities associated with financial settlement among retailers and customers and provides for tracking and facilitating customer transfers among competitive retailers;
- "Retailer" means a person who retails electricity;
- "Service Area" with respect to a distributor, means the area in which the distributor is authorized by its license to distribute electricity;
- **"Small Embedded Generation Facility"** means an embedded generation facility which is not a microembedded generation facility with a name-plate rated capacity of 500 kW or less in the case of a facility connected to a less than 15 kV line and 1MW or less in the case of a facility connected to a 15 kV or greater line:
- "Total losses" means the sum of distribution losses and unaccounted for energy;
- "Townhouses" are usually a free hold property, the land is owned by the individual Owners of each unit, fronting onto a municipal street;
- "Townhouse Development" is a structure or complex of structures each containing more than two residential units. A single residential customer would occupy each unit, and have direct outside access at ground level;
- "Transmission System" means a system for transmitting electricity, and includes any structures, equipment or other things used for that purpose;

COS Version 5.3a Page- 62 -



Cornerstone Hydro Electric Concepts Association Inc.



"Transmission System Code" means the Board approved code that is in force at the relevant time, which regulates the financial and information obligations of the Transmitter with respect to its relationship with customers, as well as establishing the standards for connection of customers to, and expansion of a transmission system;

"Transmit" with respect to electricity, means to convey electricity at voltages of more than 50 kilovolts;

"Transmitter" means a person who owns or operates a transmission system;

"Unaccounted-for Energy" means all energy losses that cannot be attributed to distribution losses. These include measurement error, errors in estimates of distribution losses and un-metered loads, energy theft and non-attributable billing errors;

"Un-metered loads" means electricity consumption that is not metered and is billed based on estimated usage;

"Validating, Estimating and Editing (VEE)" means the process used to validate, estimate and edit raw metering data to produce final metering data or to replicate missing metering data for settlement purposes;

"Wholesale Market Participant" means a person that sells or purchases electricity or ancillary services through the IESO-administered markets;

COS Version 5.3a Page- 63 -



Cornerstone Hydro Electric Concepts Association Inc.



SECTION 5 APPENDICIES

Electrical Planning Requirements Document

Electric Service Meter Base/ Service Verification Form

Contact Information

Deposit Policy

Disconnection Policy

Collection Policy

COS Version 5.3a Page- 64 -



Cornerstone Hydro Electric Concepts Association Inc.



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Cornerstone Hydro Electric Concepts Association Inc.



Electrical Planning Requirements

It is essential that the following information be provided to:

- a) enable an assessment to be made on the impact of the proposed project on the Electrical Distribution System.
- b) enable the Distributor to prepare pertinent information for the developer.

Please supply answers to the following questions as soon as possible as electrical planning cannot proceed until the Distributor has reviewed this information.

Preliminary electrical site plan drawings are to be submitted together with this form. Electrical drawings are to be submitted to the Distributor for approval prior to any related job tenders or the commencement of any electrical construction. The drawings shall be drawn to a scale usable by the Distributor, shall show local pole locations, proposed transformer location, proposed electrical room/metering location and show how access to the metering would be gained (i.e.: the path to the metering).

Electrical site plan drawings are to be submitted to the Distributor on one (1) Paper copy and in an electronic format as approved by the Distributor.

Project Location: (Municipal Address)	
Name of Project:	
Name of Applicant:	
Address:	
Contact Name:	
Address:	
E-Mail:	
Telephone: _ ()	Fax: ()
Service Classification (as many as apply):	Service Entrance Switchboard with Utility ☐ Yes ☐ No CT and PT Compartment
☐ Residential	
☐ General Service < 50kW	Capacity of Main Service (in Amperes):
☐ General Service > 50kW	Maximum rated capacity:
☐ General Service >500kW	
☐ Unmetered os Miscellaneous Load	Estimated Connected Load - Demand in kW:
☐ Temporary Service	Maximum initial Demand:kW
	Maximum Future Demand:kW
What service voltage is required (★ one only):	
☐ 120/240 Volt Single Phase	Metering Type (☑ one only):
☐ 120/208 Volt Three Phase	☐ Single Meter
☐ 347/600 Volt Three Phase	☐ Multiple Meters
☐ Primary	Quantity of Meter installations
	100A or less:
Required In-Service Date:	101A to 200A:
Month / Day / Year/	more than 200A:
Comments: Please use the back of this form for comm	nents
Signed:	Date:
Name: (Representative of Applicant)	Title:



Cornerstone Hydro Electric Concepts Association Inc.



Electric Service Meter Base/ Billing Address Verification Form

This form <u>must</u> be completed by the Owner and/or their Electrical Contractor if applicable prior to service connection.

Electric Service Municipal Address:	
Name of Owner:	
Telephone: ()	Fax: _()
Name of Contractor:	
Telephone: ()	Fax: _()
n area (A) provided below, carefully sketch the Front View latch the corresponding (B) <u>BILLING ADDRESS</u> for each	
(A) FRONT VIEW OF ELECTRIC METER BASE(S)	(B) BILLING ADDRESS
	1)
	2)
	3)
	4)
	5)
	6)
	5)
	7)
	8)
	9)
	10)
	11)
W. Al J	
We the undersigned, acknowledge the information provide	
gnature of Owner:	Date:



Cornerstone Hydro Electric Concepts Association Inc.



Contact Information

L	ocal Distribution Company	Contact Phone Number		
Centre Wellington Hydro Ltd.				
	ED-2002-0498	Phone: (519) 843-2900		
COLLUS	Power Corp.	Phone: (705) 445-1800		
Licence #	ED-2002-0518	-Friorie. (703) 443-1600		
Grand Va	alley Energy Inc.	Phone: (519) 928-3112		
Licence #	ED-2002-0512	1 110110. (010) 020 0112		
Hydro 20	00	Phone: (613) 679-4093		
Licence #	ED-2002-0542	1 110110. (010) 070 1000		
Innisfil H	ydro Distribution Systems Ltd.	Phone: (705) 431-6870		
Licence #	ED-2002-0520	1 110110. (100) 101 0010		
Lakefron	t Utilities Inc.	Phone: (905) 372-2193		
Licence #	ED-2002-0545	(000) 0. = = 100		
Lakeland	Power Distribution Ltd.	Phone: (705) 789-5442		
Licence #	ED-2002-0540	(. 65) . 65 6		
Midland I	Power Utility Corporation	-Phone: (705) 526-9361		
Licence #	ED-2002-0541			
Orangevi	ille Hydro Ltd.	Phone: (519) 942-8000		
Licence #	ED-2002-0500	(
Orillia Po	ower	Phone: (705) 326-2495		
Licence #	ED-2002-0530	, ,		
	und Power Corporation	Phone: (705) 746-5866		
Licence #	ED-2003-0006	(,		
Rideau S	t. Lawrence Distribution Inc.	Phone: (613) 925-3851		
	ED-2003-0003	, ,		
Wasaga I	Distribution Inc.	Phone: (705) 429-2517		
Licence #	ED-2002-0544	, ,		
Wellingto	on North Power Inc.	-Phone: (519) 323-1710		
Licence #	ED-2002-0511			
Westario	Power Inc.	Phone: (519) 396-3471		
Licence #	ED-2002-0515	Toll Free: 1-866-978-2746		
	ast Huron Energy Inc.	Phone: (519) 524-7371		
Licence #	ED-2002-0510	` ′		
	ck Hydro Services Inc.	-Phone: (519) 537-3488		
Licence #	ED-2003-0011			

Note: Licence Numbers published by OEB as of May 1, 2003



Cornerstone Hydro Electric Concepts Association Inc.



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Cornerstone Hydro Electric Concepts Association Inc.



Policy 6.0	Version 3.	
	Created: June, 2002 Latest Revision: June 21, 2004	

6.0.1 PURPOSE:

This policy describes the terms and conditions distributors will use for collection, maintaining and returning customer security deposits while complying with the applicable legislation and codes.

In accordance with the Distribution System Code and Retail Settlement Code it must include:

- a list of all potential types/forms of security accepted;
- a detailed description of how the security is calculated;
- limits on the amount of security required;
- the planned frequency, process and timing of updating security;
- a description of how interest payable to customers is determined;
- criteria customer must meet to have security deposit waived and/or returned;

and

methods of enforcements where a security deposit is not paid.

6.0.2 POLICY STATEMENT:

A distributor may use any risk mitigation options available to manage customer non-payment risk. A distributor shall not discriminate among customers with similar risk profiles or risk related factors except where expressly permitted under the Distribution System Code.

A distributor will comply with the deposit requirements as defined in the Distribution System and Retail Settlement Codes but may waive these requirements in favour of a customer or potential customer.

6.0.3 FORM OF SECURITY DEPOSIT:

Residential

The form of payment of a security deposit for a residential customer shall be cash or cheque at the discretion of the customer or such other form as is acceptable to the distributor.



Cornerstone Hydro Electric Concepts Association Inc.



General Service

The security deposit will be in the form of cash, cheque or an automatically renewing, irrevocable letter of credit from a bank for non residential customers.

The distributor may also accept other forms of security.

The distributor shall permit customer to pay security deposit in 4 equal monthly instalments, the first instalment being due on the implementation of an implied contract or the signing of service agreement. The customer may pay the security deposit over a shorter period of time.

The reasons for requiring the security deposit must be disclosed to the customer.

6.0.4 METHOD OF CALCULATION AND LIMIT OF SECURITY DEPOSIT:

The maximum amount of the security deposit that a customer is required to pay is calculated using:

- the billing cycle factor times the estimated bill based on the customer's average monthly load with the distributor in the most recent 12 consecutive months within the last two years.
- Where relevant usage information is not available for the customer for 12 consecutive months within the past two years or the billing system is not capable of making the calculation, the customer's average monthly load shall be based on a reasonable estimate made by the distributor.

Where a customer has a payment history which discloses more than one disconnection notice in a relevant 12 month period, the distributor may use the customer's highest actual or estimated monthly load for the most recent 12 consecutive months within the past 2 years for the purposes of calculating the maximum amount of the security deposit.

For a low-volume consumer or designated consumer the price estimate used in calculating competitive electricity costs shall be the same as the price used by the IMO for the purpose of determining maximum net exposures and prudential support obligations for distributors.

If a non-residential customer with a >50kW demand rate can provide a credit rating from a recognized credit rating agency, the maximum amount of the security deposit required by the distributor shall be reduced in accordance with the following table:



Cornerstone Hydro Electric Concepts Association Inc.



Credit Rating

(Using Standard and Poor's Rating Terminology)
Allowable Reduction in Security Deposit

AAA- and above or equivalent 100%
AA-, AA, AA+ or equivalent 95%
A-, From A, A+ to below AA or equivalent 85%
BBB-, From BBB, BBB+ to below A or equivalent 75%
Below BBB- or equivalent 0%

6.0.5 PLANNED FREQUENCY, PROCESS AND TIMING OF UPDATING SECURITY DEPOSITS:

The distributor shall review every customer's security deposit at least once every calendar year to determine whether the entire amount of the security deposit is to be returned to the customer or adjusted based on a re-calculation of the maximum amount of the security deposit.

When the distributor determines in conducting a review that the maximum amount of the security deposit is to be adjusted upward, the distributor may require the customer to pay this additional amount at the same time the customer's next regular bill comes due.

A customer may demand in writing, no earlier than 12 months after payment of a security deposit or the making of a prior demand for a review, that the distributor undertake a review to determine whether the amount of the security deposit is to be returned to the customer or adjusted based on a re-calculation of the maximum amount of the security deposit. If some or all of the security deposit is to be returned to the customer, the distributor shall promptly return this amount.

Any security deposit received from the customer upon closure of the customer account, shall be applied to the final bill prior to change in service and can be used to off-set other amounts owing by the customer to the distributor. The balance shall be returned within six weeks of closure of the account.

6.0.6 INTEREST PAYABLE:

The interest shall accrue monthly on security deposits made by cash or cheque commencing on receipt of the total deposit. The interest shall be at the Prime Business Rate as published on the Bank of Canada website less 2 percent, updated quarterly. The interest accrued shall be paid at least once every 12 months or on return or application of the security deposit or closure of the account, whichever comes first, and may be credited to the account.



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6.0.7 CRITERIA REQUIRED FOR WAIVERED AND/OR RETURN OF SECURITY DEPOSIT:

The distributor reserves the right to collect a security deposit from a customer that is not billed by a competitive retailer under retailer-consolidated billing unless the customer has a good payment history of:

- 1 year in the case of a residential customer,
- 5 years in the case of a non-residential customer in < 50 kW demand rate class, or
- 7 years in the case of a non-residential customer in ay other rate class.

The time period that makes up the good payment history must be the most recent period of time and some of the time period must occur in the previous 24 months.

A customer is deemed to have a good payment history, unless, during the relevant time period the customer has received:

- more than one disconnection notice from the distributor, or
- more than one cheque given to the distributor by the customer has been returned for insufficient funds, or
- more than one pre-authorized payment to the distributor has been returned for insufficient funds, or
- a disconnection/collection trip has occurred.

The distributor shall not require a security deposit if the customer provides the following prior to the implementation of service:

- the customer provides a letter from another distributor or gas distributor in Canada confirming a good payment history for the most recent relevant time period, some of this time period must have incurred within the last 24 months,
- a customer, other than a customer in a >5,000 kW demand rate class, that provides a satisfactory credit check made at the customer's expense,
- If a non-residential customer with a >50kW demand rate can provide a credit rating from a recognized credit rating agency, the maximum amount of the security deposit required by the distributor shall be reduced in accordance with the following table:

Credit Rating

(Using Standard and Poor's Rating Terminology)
Allowable Reduction in Security Deposit



Cornerstone Hydro Electric Concepts Association Inc.



AAA- and above or equivalent 100%
AA-, AA, AA+ or equivalent 95%
A-, From A, A+ to below AA or equivalent 85%
BBB-, From BBB, BBB+ to below A or
equivalent 75%
Below BBB- or equivalent 0%

However, when the distributor determines in conducting a review that the maximum amount of the security deposit is to be adjusted upward, the distributor may require the customer to pay this additional amount at the same time the customer's next regular bill comes due.

In the case of a customer in a >5,000kW demand rate class, where the customer is now in a position that it would be exempt from paying a security deposit, however, had previously paid a security deposit to the distributor, the distributor is only required to return 50% of the security deposit.

6.0.8 METHOD OF ENFORCEMENT WHERE SECURITY DEPOSIT IS NOT PAID:

Failure to pay the security deposit as required will result in the immediate implementation of the distributor's collection policy process which may lead to the discontinuation of electrical service.

6.0.9 **DEFINITIONS**:

"The Billing Cycle Factor" is 2.5 if the customer is billed monthly, 1.75 if the customer is billed bi-monthly and 1.5 if the customer is billed guarterly.

"Disconnection/Collection Trip" is a visit to a customer's premises by an employee or agent of the distributor to demand payment of an outstanding amount or to shut off or limit distribution of electricity of the customer failing payment.

6.0.10 RESPONSIBILITIES:

The management of the company is responsible for ensuring that the corporation is protected from undue risk of bad debt.

6.0.11 REFERENCES:

The Electricity Act, 1998 – Province of Ontario, Ministry of Energy, Science and Technology

Market Rules - The Independent Electricity Market Operator

Distribution System Code - The Ontario Energy Board

Retail Settlement Code - The Ontario Energy Board

Electricity Distribution Rates Handbook - The Ontario Energy Board



Cornerstone Hydro Electric Concepts Association Inc.



Policy 8.0 Version 3.0

DISCONNECTION/RECONNECTION

Created: September, 2002

Latest Revision: June 21, 2004

8.0.1 PURPOSE:

OVERVIEW

The detailed policies in this set are intended to establish and document a process that will provide guidance to the LDC's management and staff to help them make operational decisions when disconnecting and/or reconnecting the electrical service of a consumer.

8.0.2 POLICY STATEMENT:

The LDC will ensure that it has developed a physical and business process for disconnection ensuring safety and reliability as a primary requirement. The LDC will not be held liable for any damages or loss as the result of disconnection or limiting of service.

The LDC shall follow the regulation and direction set out in the Distribution Rate Handbook Chapter 9 when implementing the disconnection and/or reconnection process.

- A disconnection notice will be issued in writing not less than seven days after the
 date specified on the bill as the due date. Notice must be given by hand delivery or
 by registered mail. Both the customer and tenants of the customer will receive seven
 days' notice before cut-off.
- Prior to the disconnection of the electricity service, a representative of the utility will
 make reasonable efforts to establish direct contact with the customer. The utility
 should also where possible, notify the occupants of each separately occupied unit in
 the premises. The electricity service will not be disconnected by reason of the nonpayment of bills until seven days after a disconnection notice has been given to the
 customer and as set out in Chapter 9 of the Distribution Rate Handbook.
- Where the electricity service has been disconnected on order to collect the account and then reconnected, a reconnection of service charge may be applied to the customers account.

The LDC reserves the right to physically disconnect or limit the amount of electricity that a customer can consume.

- 8.1.1 Disconnection/Reconnection
- 8.1.2 Seasonal Connections
- 8.1.3 Disconnection/Reconnection by Request
- 8.1.4 Safety and Reliability
- 8.5 Unauthorized use of Electricity

8.0.3 DEFINITIONS:

Current Limiting Device is a device that will limit the electrical current available to the customer.



Cornerstone Hydro Electric Concepts Association Inc.



Customer and Consumer will be understood herein as one and the same.

Disconnection is when the LDC discontinues the delivery of electricity to a property and/or premise.

Reconnection is when a property or premise has electrical service energized or reestablished by the LDC.

Security Deposit is an amount collected by the LDC and is held by the distributor to ensure that all monies owed to the Corporation are collected at the time of the final billing. Interest payments will be applied at least annually on all cash deposits.

8.0.4 RESPONSIBILTIES:

The management of the company is responsible for ensuring that the corporation is protected from undue risk of bad debt.

8.0.5 REFERENCES:

The Electricity Act, 1998 - Province of Ontario, Ministry of Energy, Science and Technology

Electricity Distribution Rate Handbook - The Ontario Energy Board

Retail Settlement Code - The Ontario Energy Board

Distribution System Code - The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada

Condition of Service – The Distributor



Cornerstone Hydro Electric Concepts Association Inc.



Policy 8.1	Version 3.0	
DISCONNECTION/RECONNECTION	Created: September, 2002 Latest Revision: June 21, 2004	

8.1.1 PURPOSE:

This policy confirms that the LDC has established a process for the disconnection and/or reconnection of a property and/or premise, and the specific timing and means of notification consistent with the Electricity Act, 1998.

The detailed policies in this set are intended to establish and document a process that will provide guidance to the LDC's management and staff, that will help them make operational decisions to disconnect and/or reconnect the electrical service of a consumer.

8.1.2. POLICY STATEMENT:

The LDC shall follow the regulation and direction set out in the Distribution Rate Handbook Chapter 9 when implementing disconnect or reconnection process.

- A disconnection notice will be issued in writing not less than seven days after the
 date specified on the bill as the due date. Notice must be given by hand delivery or
 by registered mail. Both the customer and tenants of the customer will receive seven
 days' notice before disconnection.
- Prior to the disconnection of the electricity service, a representative of the utility will
 make reasonable efforts to establish direct contact with the customer. The utility
 should also where possible, notify the occupants of each separately occupied unit in
 the premises. The electricity service will not be disconnected by reason of the nonpayment of bills until seven days after a disconnection notice has been given to the
 customer and as set out in Chapter 9 of the Distribution Rate Handbook.
- Where the electricity service has been disconnected on order to collect the account and then reconnected, a reconnection of service charge may be applied to the customers account.

The LDC will ensure that it has developed a physical and business process for disconnection and/or reconnection ensuring safety and reliability as a primary requirement.

The LDC shall treat all customers in a non-discriminatory fashion when disconnecting and/or reconnecting an electrical service.

The LDC shall have the right to limit or discontinue service <u>without further notification</u> to the customer for payment default, including default of payment arrangements, bankruptcy, receivership, or property foreclosure.

The LDC shall have the right to limit or discontinue service for non-payment of a security deposit from customers that have defaulted on payment arrangements.

The LDC shall have the right to refuse the reconnection if there are any outstanding amounts owed by the consumer or if the service is found to have an adverse effect on the safety and/or reliability of the system.

The LDC shall have the right to discontinue electrical service of a consumer if the service causes safety or reliability risk to the distributor's system.



Cornerstone Hydro Electric Concepts Association Inc.



The LDC shall insist that electrical services that have been disconnected for six (6) or more months have an inspection certificate from the Electrical Safety Authority prior to reconnection. Not withstanding the LDC reserves the right to require, an Electrical Safety Authority inspection certificate at any time prior to reconnection at the expense of the customer.

The LDC shall insist that a responsible representative of the property be present in order for reconnection of service to be established.

8.1.3 RESPONSIBILITIES:

The management of the company is responsible for ensuring that the corporation is protected from undue risk of bad debt.

8.1.4 REFERENCES:

The Electricity Act, 1998 - Province of Ontario, Ministry of Energy, Science and Technology

Retail Settlement Code - The Ontario Energy Board

Electricity Distribution Rates Handbook - The Ontario Energy Board

Distribution System Code - The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada

Condition of Service - The Distributor



Cornerstone Hydro Electric Concepts Association Inc.



Policy 8.3	Version 3.0
DISCONNECTION/RECONNECTION BY	Created: September, 2002
REQUEST	Latest Revision: June 21, 2004

8.3.1 PURPOSE:

This policy confirms that the LDC has established a process for the disconnection and/or reconnection of an electrical service and may require a written request from the consumer.

8.3.2 POLICY STATEMENT:

The LDC shall respond to a customer's request for a disconnection and reconnection of an electrical service in a prompt and efficient manner.

The LDC shall have the right to refuse the reconnection of and electrical service if there is an outstanding amount of money owed by the consumer or if the connection is found to have an adverse effect on the safety and/or reliability of the distribution system.

The LDC shall insist that electrical services that have been disconnected for six (6) or more months have an inspection certificate from the Electrical Safety Authority prior to reconnection. Not withstanding the LDC reserves the right to require an Electrical Safety Authority certificate at any time prior to reconnection at the customer expense.

The LDC shall insist that a responsible representative of the property be present when electrical service is energized or reconnected.

8.3.3 RESPONSIBILITIES:

The management of the company is responsible for ensuring that the corporation is protected from undue risk of bad debt.

8.3.4 REFERENCES:

The Electricity Act, 1998 - Province of Ontario, Ministry of Energy, Science and Technology

Retail Settlement Code - The Ontario Energy Board

Electricity Distribution Rates Handbook - The Ontario Energy Board

Distribution System Code - The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada

Condition of Service - The Distributor



Cornerstone Hydro Electric Concepts Association Inc.



Policy 8.4.0	Version 3.0	
SAFETY AND RELIABILITY	Created: September, 2002 Latest Revision: June 21, 2004	

8.4.1 PURPOSE:

This policy confirms that the LDC has established a process for ensuring the safety and reliability of the distribution system.

8.4.2 POLICY STATEMENT:

The LDC shall respond to and take reasonable steps to investigate all consumer power quality complaints and report to the consumer on the results of the investigation.

The LDC may direct a consumer connected to its distribution system to take corrective or preventive action on the consumer's electric system when there is a direct hazard to the public or the consumer is causing or could cause adverse effects on the reliability of the LDC's distribution system.

The LDC may require that any consumer conditions that adversely affect the distribution system be corrected immediately by the consumer and at the consumer's expense.

The LDC shall insist that electrical services that have been disconnected for six (6) or more months have an inspection certificate from the Electrical Safety Authority prior to reconnection. Not withstanding the LDC reserves the right to require an Electrical Safety Authority certificate at any time prior to reconnection at the customer expense.

The LDC shall have the right to refuse the reconnection of an electrical service to their distribution system if the connection is found to have an adverse effect on the safety and/or reliability of the system.

The LDC shall have the right to disconnect the electrical service of a consumer if the service causes safety or reliability risk to the distributor's system.

The LDC shall insist that a responsible representative of the property be present when electrical service is energized or reconnected.

8.4.3 RESPONSIBILITIES:

The management of the company is responsible for ensuring that the service quality of the distribution system is safe and reliable.

8.4.4 REFERENCES:

The Electricity Act, 1998 – Province of Ontario, Ministry of Energy, Science and Technology Retail Settlement Code – The Ontario Energy Board

Electricity Distribution Rates Handbook – The Ontario Energy Board

Distribution System Code – The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada

Condition of Service – The Distributor



Cornerstone Hydro Electric Concepts Association Inc.



Policy 8.5.0	Version 3.0
UNAUTHORIZED USE OF ELECTRICITY	Created: September, 2002 Latest Revision: June 21, 2004

8.5.1 PURPOSE:

This policy confirms that the LDC has established a process that management and staff can follow if it is discovered that there is unauthorized use of electricity.

8.5.2 POLICY STATEMENT:

The LDC shall use its discretion in taking action to mitigate unauthorized energy use. Upon identification of possible unauthorized energy use, the LDC shall notify, if appropriate, Measurement Canada, the Electrical Safety Authority, police officials, retailers that service the customers affected by the unauthorized energy use, or other entities.

The LDC shall monitor losses and unaccounted for energy use on an annual basis to detect any upward trends.

The LDC may recover from the parties responsible for the unauthorized energy use all energy and other applicable charges incurred by the distributor arising from the unauthorized energy use, including inspection, administration fees and repair costs.

8.5.3 RESPONSIBILITIES:

The management of the company is responsible for monitoring losses and unaccounted for energy.

8.5.4 REFERENCES:

The Electricity Act, 1998 – Province of Ontario, Ministry of Energy, Science and Technology

Retail Settlement Code - The Ontario Energy Board

Electricity Distribution Rates Handbook - The Ontario Energy Board

Distribution System Code - The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada

Conditions of Service - The Distributor



Cornerstone Hydro Electric Concepts Association Inc.



Policy 7.0	Version 3.0	
COLLECTION OVERVIEW	Created: September, 2002 Latest Revision: June 21, 2004	

7.0.1 PURPOSE:

The purpose of this policy is to establish a process to ensure money owed to the LDC by consumers is collected.

7.0.2 POLICY STATEMENT:

The LDC shall follow the regulation and direction set out in the Distribution Rate Handbook Chapter 9 when implementing the collection process.

The LDC will collect all outstanding money owed from Customers and Retailers served by the LDC's distribution system in accordance with the principles defined in the *Electricity Act* (1998), the *Electricity Distribution Rate Handbook* and the *Retail Settlement Code*. The policies in this set are intended to provide guidance to the LDC's managers and staff, and to help them make operational decisions that are consistent with applicable codes and regulations.

- 7.1 Customer Collections
- 7.2 Retailer Collections

The LDC will collect all outstanding money owed from Customers and Retailers served by the LDC's distribution system in accordance with the principles defined in the *Electricity Act*

7.0.3 DEFINITIONS:

Licensed Competitive Retailer is a company that has a valid electricity retailer's license from the Ontario Energy Board.

Standard Service Supply Customer is a company or person who purchases electricity at spot market price or statutory pricing from a LDC's distribution system as a direct pass through from the IMO.

Customer and Consumer will be understood herein as one and the same.

Non-Competitive Charges is made up of the Wholesale Market Service charge, the Debt Retirement charge, Transmission Connection charge, Transmission Network charge and Distribution charges.

Distributor-Consolidated Billing is when a retailer marketer who has signed contracts in the LDC service area and has opted for the distributor to do the billing and collection of the electricity commodity and all related non-competitive charges.

Retailer-Consolidated Billing is when the retail marketer opts to do the billing and collection of the electricity commodity and all related non-competitive charges.

Split Billing is when the retail marketer bills the customer for the electricity charges and the LDC bills for the customer for non-competitive, debt retirement and distribution charges. The retailer and the distributor shall each be responsible for the collection of their own accounts.



Cornerstone Hydro Electric Concepts Association Inc.



Late Payment Charge is an OEB approved interest charge that is applied after a specified date or a due date on a customer's bill.

Errors and Omissions Excepted the LDC shall reserve the right to make adjustments to any bill issued in error either in whole or in part.

Non-Payment Risk Mitigation the LDC may use any risk mitigation options available to manage consumer non-payment risk.

7.0.4 COLLECTION PAYMENT METHODS:

The LDC may accept one or more of the following methods of payment but are not obligated to offer all methods:

Cash

Payment made through most Financial Institutions including telephone & computer banking Certified Cheque

Money Order or Bank Draft

Credit Card

Interac

Preauthorized Chequing

7.0.5 RESPONSIBILTIES:

The Board of Directors are responsible for the approval of the policies contained in this manual.

7.0.6 REFERENCES:

The Electricity Act, 1998 – Province of Ontario, Ministry of Energy, Science and Technology

Electricity Distribution Rate Handbook - The Ontario Energy Board

Retail Settlement - The Ontario Energy Board

Distribution System Code – The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada



Cornerstone Hydro Electric Concepts Association Inc.



Policy 7.1	Version 3.	
CUSTOMER COLLECTIONS	Created: September, 2002 Latest Revision: June 21, 2004	

7.1.1 PURPOSE:

This policy confirms that the LDC must be prudent in their collection process to protect the corporation from unpaid invoices. The detailed policies in this set are intended to establish and document a process that will provide guidance to the LDC's management and staff, to help them make operational decisions to ensure that monies owed to the LDC by the consumer or retailer are collected in a timely manner.

7.1.2 POLICY STATEMENT:

The LDC will take steps to collect the total amount for the customer's bill, if not paid within the time specified, which shall be a minimum of sixteen calendar days from the date of mailing or hand delivery of the bill. A collection of account charge may be made if a representative of the utility is dispatched to collect the account.

The customer shall be subject either to a collection of account charge or a reconnection charge in the event service has been interrupted in order to collect outstanding amounts owed in any billing period, unless partial payment of the account has been accepted by the LDC.

The LDC may apply more than one collection of account charge or reconnection charge in one billing period if a partial payment has been accepted through a collection trip.

The LDC shall begin the collection process immediately following the application of late payment charge.

The LDC shall treat all customers in the same rate class in a non-discriminatory fashion when collecting unpaid accounts.

The LDC shall have the right to limit or disconnect service for non-payment, theft of power and/or failing to keep payment arrangements.

The LDC shall reserve the right to make adjustments to any bill issued in error either in whole or in part.

7.1.3 RESPONSIBILITIES:

The management of the company is responsible for ensuring that the corporation is protected from undue risk of bad debt.

7.1.4 REFERENCES:

The Electricity Act, 1998 - Province of Ontario, Ministry of Energy, Science and Technology

Retail Settlement Code - The Ontario Energy Board

Electricity Distribution Rates Handbook - The Ontario Energy Board

Distribution System Code - The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada



Cornerstone Hydro Electric Concepts Association Inc.



Policy 7.2	Version 3.0	
RETAILER COLLECTIONS	Created: September, 2002 Latest Revision: June 21, 2004	

7.2.0 PURPOSE:

This policy describes the processes to collect outstanding balances from retailers who have signed sales agreements with consumers served by the LDC's distribution system and to ensure that the Retailer meets the prudential requirements based on the billing option selected and the Retailer's magnitude of financial exposure. This process also applies to collection of past due Retail settlement and market participant invoices.

7.2.1 POLICY STATEMENT:

The LDC requires Retailers to pay invoices on the due date as specified in the code.

The LDC reserves the right to refuse service transaction requests, requests for information, invoices or other transactions from retailers with whom the LDC does <u>not</u> have an up-to-date service agreement and/or financial security arrangements.

The LDC shall review the required level of deposit from a Retailer for customers served through Distributor Consolidated Billing on a quarterly basis as a minimum.

The LDC shall immediately notify the retailer the day after a settlement payment was due if funds were not received and work with the retailer to remedy the situation.

The LDC shall not access the funds available through the relevant security arrangement until five business days have elapsed.

The LDC shall issue to the Retailer a Notice of Payment Default prior to returning the consumer that is signed with said Retailer back to Standard Service Supply (SSS).

7.2.2 RESPONSIBILITIES:

The management of the company is responsible for ensuring that prudential monitoring and payments from a Retailer are collected within the guidelines specified in the service agreement.

7.2.3 REFERENCES:

The Electricity Act, 1998 – Province of Ontario, Ministry of Energy, Science and Technology

Market Rules - The Independent Electricity Market Operator

Retail Settlement Code - The Ontario Energy Board

Electricity Distribution Rates Handbook - The Ontario Energy Board

Electricity Gas and Inspection Act - Government of Canada

File Number: EB-2007-0704

Exhibit: 1

Tab: 1 Schedule: 18

Page: 1

Hydro 2000 Inc.

PLANNED CHANGES IN CONDITIONS OF SERVICE AND SERVICE CHARGES

Hydro 2000 Inc. has joined the CHEC group and is submitting the same Conditions of Service. Version 5.3 of the Conditions of service is attached in Exhibit 1; Tab 1; Schedule 17. At the present time a version 5.4 is in the process to be approved by the OEB Board.

File Number: EB-2007-0704

Exhibit: 1

Tab: 1 Schedule: 19

Page: 1

Hydro 2000 Inc.

LIST OF WITNESSES

To be provided if oral hearing occurs

Name : Rene C. Beaulne

Title : Manager

Company: Hydro 2000 Inc.

Name : Gerald Gauthier

Title : Auditors Company: Deloitte

Name : James Cochrane

Title : Consultant

Company: Elenchus Research Associates

Name : Bruce Bacon Title : Consultant

Company: Elenchus Research Associates

Name: Dave Proctor Title: Consultant Company: CHEC

Name: Patrick Moran
Title: Consultant / Lawyer
Company: Ogilvy Renault

File Number: EB-2007-0704

Exhibit: 1 Tab: 2

Schedule: 1 Page: 1

Hydro 2000 Inc.

SUMMARY OF THE APPLICATION

PURPOSE AND NEED

The Applicant estimates that its present rates will produce a deficiency in distribution revenue of \$165,866 for the 2008 Test Year. Excluded from this estimate is the impact of energy costs. The Applicant therefore seeks the Board's approval to revise its rates applicable to its distribution of electricity. The issues to be reviewed in this case, as the applicant sees them, are discussed below.

Through this Application, the Applicant seeks:

- To recover all outstanding Deferral Variance Accounts, to have fair rates to customers and Hydro 2000 Inc. and its shareholders without jeopardizing safety reliability and service to customers.
- To change the common equity from 50% to 40%.
- To reflect the accurate portrait of Hydro 2000 Inc. operations through the Model

The information used in this Application is the Applicant's forecasted results for its 2008 Test Year. With the rates presently in effect, the Applicant estimates that its revenue for 2008 would not be sufficient to provide a reasonable return. The Applicant is also presenting the historical actual information for fiscal year 2006, information for the current approved test year and six months actual and six months forecast for the fiscal 2007 bridge year.

TIMING

The financial information supporting the Test Year for this Application will be the Applicant's fiscal year ending December 31, 2008 (the "2008 Test Year"). However, this information will be used to set rates for the period May 1, 2008 to April 30, 2009. The Test Year revenue requirement is that forecast by the Applicant as needed to enable it to earn a reasonable return for fiscal 2008. For the required revenues to match and appropriately offset the expected costs of service for the Test Year, revised rates reflecting the Board's decision must be effective for volumes consumed on and after May 1, 2008.

CUSTOMER IMPACT

The following table is a comparator between the current rates and the proposed rates in 2008 test year for typical customers in their classes.

Class	Consumption	Current Bill	Proposed Bill	Bill Impact	Bill Impact
		2007 approved rates	2008 Proposed Rates	\$	%
Residential	1000 kWh	\$111.98	\$112.14	\$0.15	0.1%
GS less than 50 kW	2000 kWh	\$215.05	\$227.3	\$12.26	5.4%
GS over than 50 kW	100 kW, 40000 kWh	\$3,899.5	\$3,968.39	\$68.89	1.7%
Unmeterd Scattered Load	500 kWh	\$56.63	\$66.63	\$10.00	15.0%
Street Light	77 kW, 25,000 kWh	\$2,112.39	\$2,708.98	\$596.60	22.0%

Exhibit: 1 Tab: 2

Schedule: 1 Page: 2

Hydro 2000 Inc.

Residential

A typical residential customer with a consumption of 1000 kWhs will see its invoice increase by 0.1%. In this increase a re-allocation of revenues from other classes of -2.82% contributed to decrease the increase to the class. In the cost allocation it showed that the Residential contribution to revenue was over sufficient. The revenue-to-cost ratios for the rate for Residential was decrease from 66.35% to 63.52%. Please refer to the previous table and Exhibit 9, Tab 1, Schedule 7.

General Service less than 50kW

A typical General Service less than 50 kW with a consumption of 2000 kWhs will see its invoice increase by 5.4%. In this increase a re-allocation of revenues from other classes of 2.27% contributed to boost the increase to the class. In the cost allocation it showed that the General Service less than 50 kW contribution to revenue was deficient. The revenue-to-cost ratios for the rate for General Service less than 50 kW was increase from 21.63% to 23.9%. Please refer to the previous table and Exhibit 9, Tab 1, Schedule 7.

General Service over 50 kW

A typical General Service over than 50 kW with a consumption of 100 kWs and 40,000 kWhs will see its invoice increase by 1.7%. In this increase a re-allocation of revenues from other classes of -1.0% contributed to decrease the increase to the class. In the cost allocation it showed that the General Service over than 50 kW contribution to revenue was over sufficient. The revenue-to-cost ratios for the rate for General Service over than 50 kW was decrease from 11.25% to 10.25%. Please refer to the previous table and Exhibit 9, Tab 1, Schedule 7.

Unmetered Scattered Load

A typical Unmetered Scattered Load with a consumption of 500 kWhs will see its invoice increase by 6.7%. In this increase a re-allocation of revenues from other classes of .08% contributed to boost the increase to the class. In the cost allocation it showed that the Unmetered Scattered Load contribution to revenue was deficient. The revenue-to-cost ratios for the rate for Unmetered Scattered Load was increase from 0.17% to 0.25%. Please refer to the previous table and Exhibit 9, Tab 1, Schedule 7.

Street Light

The Street Light Class is composed of one customer with an average consumption of 77 kWs and 25,000 kWhs will see its invoice increase by 22.0%. In this increase a re-allocation of revenues from other classes of 1.3% contributed to boost the increase to the class. In the cost allocation it showed that the Street Light class contribution to revenue was deficient. The revenue-to-cost ratios for Street Light was increase from 0.79% to 2.09%. Please refer to the previous table and Exhibit 9, Tab 1, Schedule 7.

Exhibit: 1

Tab: 2 Schedule: 1

Page: 3

Hydro 2000 Inc.

MAJOR ISSUES

There are a number of issues that, although they may not all be defined as major, are anticipated to be examined in this case. These issues are listed below.

Examples

Capital Structure

The Applicant is requesting a change in its deemed capital structure. Specifically, the Applicant is requesting a decrease in the deemed equity ratio from 60% to 40% consistent with the 3 year phase in of Applicant's capital structure from 50% to 40% equity as outlined in the Report of the Board on Cost of Capital and 2nd Generation Incentive Regulation fro Ontario Electricity Distributors dated December 20, 2006.

Return on Equity

In addition, the Applicant has assumed a return on equity of 8.68% consistent with the methodology outlined in Appendix B of the Report of the Board on Cost of Capital and 2nd Generation Incentive Regulation from Ontario Electricity Distributors dated December 20, 2006. The Applicant understands the OEB will be finalizing the return on equity for 2008 rates based on January 2008 market interest rate information.

Capital Expenditures

The Applicant continues to expand and reinforce its distribution system in order to meet the demand of new and existing customers in its service territory. This increase in demand comes both from currently unserviced areas as well as existing areas needing upgrades.

Operating and Maintenance Costs

Operating and maintenance costs have been updated to reflect the impact of inflation and expected changes in costs.

Exhibit: 1 Tab: 2

Schedule: 2

Page: 1

Hydro 2000 Inc.

BUDGET DIRECTIVES

The Applicant compiles budget information for the three major components of the budgeting process: revenue forecasts, operating and maintenance expense forecast and capital budgets. This budget information is compiled for both the bridge and test years.

Revenue Forecast

The energy sales and revenue forecast model was updated to reflect more recent information. This model was then used to prepare the revenues sales and throughput volume and revenue forecast at existing rates for fiscal 2007 and 2008. The forecast is weather normalized as outlined in Exhibit 3; Tab2 Schedule 1,2,3,4,5,6 and considers such factors as new customer additions and load profiles for all classes of customers.

Operating and Maintenance Expense Forecast

The operating and maintenance expenses for fiscal 2007 bridge year and the 2008 test year have been forecast using a zero based methodology and is strongly influenced by prior year experience. Each item is reviewed account by account for each of the forecast years.

Capital Budget

The capital budgeting process begins with a review of all the accounts.

All other capital expenditures are budgeted on a line by line basis based on need and forecasted customer growth.

Exhibit: 1 Tab: 2

Schedule: 3

Page: 1

Hydro 2000 Inc.

CHANGES IN METHODOLOGY

The following is a summary of the changes in methodology requested by the Applicant in the current proceeding:

a) Capital Structure

Hydro 2000 Inc. is following Board directive and will go from a 50% debt and 50% common equity to a 60% debt and 40 % common equity.

b) Return on Equity

Hydro 2000 Inc. is following Board directive

c) Interest Rate Applicable to Deferral/Variance Accounts

Hydro 2000 Inc. is following Board directive and will apply the interest rates prescribe.

e) Cost Allocation & Fully Allocated Costing Study

Hydro 2000 Inc. will use its cost allocation to move its rates toward the recommendation of the cost allocation.

Exhibit: 1

Tab: 2 Schedule: 4

Page: 1

Hydro 2000 Inc.

NUMERICAL DETAILS OF CAUSES OF DEFICIENCY/SUFFICIENCY 2008 TEST YEAR

This will come from the rate section of the model

		Per ex	Application	Revenue		
	2006 EDR	IRM Rate Changes	Load Changes	Test Year	Test Year	Sufficiency Deficiency
Distribution Expenses	\$336,799	\$339,897	-	\$467,313	\$467,313	-\$127,410
Return On Capital	9.0%	9.0%	-	8.68%	8.68%	
PILS	\$0.00	\$0.00	-	\$39,350		-\$39,350
Distribution Expenses	\$384,336	\$387,872	-	\$527,084	\$527,084	

Exhibit: 1

Tab: 2 Schedule: 5

Page: 1

Hydro 2000 Inc.

CAUSES OF REVENUE DEFFICIENCY

The following table will demonstrate the revenue deficiency.

Determination Revenue Surplus or Deficiency								
	2006 Approved 2008 Test							
Expenses	Exi	sting Rates	Pro	posed Rates	Revenue Surplus or Defficiency			
PILS	\$	-	\$	39,350	\$	(39,350)		
LV Charges	\$	106,241	\$	121,000	\$	(14,759)		
Depreciation & Amortization	\$	44,364	\$	56,569	\$	(12,205)		
Wages Increase	\$	85,192.00	\$	98,864.00	\$	(13,672)		
Wages Burden	\$	9,183.00	\$	7,888.00	\$	1,295		
Bad debts	\$	3,800.00	\$	7,600.00	\$	(3,800)		
regulatory expense	\$	6,571.00	\$	66,500.00	\$	(59,929)		
ESA expense	\$	-	\$	3,800.00	\$	(3,800)		
Revenues								
Interest and dividend income	\$	35,560.00	\$	16,314.00	\$	(19,246)		
Total	De	ficiency			\$	(165,466)		

The Revenue Deficiency is mainly caused by 7 items.

Hydro 2000 Inc. had a big loss carry forward and did not pay PILS until the end of 2006. In EDR-2006 based on the 2004 PILS which was \$0 no PILS Amount was collected in the rates.

LV Charges cost were under estimated by Hydro One Networks Inc.

Employees at Hydro 2000 Inc. received the cost of living and re-classification in wages scale.

Wages Burden went down because of WSIB and a surcharge in EHT.

Bad debts are in increasing every year the 2007 actual bad debts have double the total in 2006 in the first 7 months.

The regulatory expenses increase is the cost of 2008 rebasing application.

In the interest and dividend income the RSVA interest are remove from OM&A and accounted in DVAD Model.

With new regulatory from ESA new expenses are incurred that was not accounted for in edr-2006.

Exhibit: 1

Tab: 2

Schedule: 5 Page: 2

Hydro 2000 Inc.

AUDITED FINANCIAL STATEMENTS

AT

DECEMBER 31 2006

Financial Statements of États financiers de

HYDRO 2000 INC.

December 31, 2006 31 décembre 2006



Deloitte and Touche LLP 300 McGill Street Hawkesbury, Ontario K6A 1P8

Tel: (613) 632-4178 Fax: (613) 632-7703 www.deloitte.ca

Auditors' Report

To the Directors of Hydro 2000 Inc.

We have audited the balance sheet of Hydro 2000 Inc. as at December 31, 2006 and the statements of earnings and retained earnings and cash flows for the year then ended. These financial statements are the responsebility of the Corporation's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the Corporation as at December 31, 2006 and the results of its operations and its cash flows for the year then ended in accordance with Canadian generally accepted accounting principles

Rapport des vérificateurs

Aux administrateurs de Hydro 2000 Inc.

Nous avons vérifié le bilan de Hydro 2000 Inc. au 31 décembre 2006 et les états des résultats et bénéfices non répartis et des flux de trésorerie de l'exercice terminé à cette date. La responsabilité de ces états financiers incombe à la direction de la Société. Notre responsabilité consiste à exprimer une opinion sur ces états financiers en nous fondant sur notre vérification.

Notre vérification a été effectuée conformément aux normes de vérification généralement reconnues du Canada. Ces normes exigent que la vérification soit planifiée et exécutée de manière à fournir l'assurance raisonnable que les états financiers sont exempts d'inexactitudes importantes. La vérification comprend le contrôle par sondages des éléments probants à l'appui des montants et des autres éléments d'information fournis dans les états financiers. Elle comprend également l'évaluation des principes comptables suivis et des estimations importantes faites par la direction, ainsi qu'une appréciation de la présentation d'ensemble des états financiers.

À notre avis, ces états financiers donnent, à tous les égards importants, une image fidèle de la situation financière de la Société au 31 décembre 2006 ainsi que des résultats de son exploitation et de ses flux de trésorerie pour l'exercice terminé à cette date selon les principes comptables généralement reconnus du Canada.

Licensed Public Accountants

Titulaire d'un permis d'expertise comptable

Hawkesbury, Ontario February 20, 2007 Hawkesbury, Ontario Le 20 février 2007

Leloitle & Vouche LLP

HYDRO 2000 INC. Financial Statements December 31, 2006

HYDRO 2000 INC. États financiers 31 décembre 2006

	<u>Page</u>	
Statement of Earnings and Retained Earnings	1	État des résultats et bénéfices non répartis
Balance Sheet	2	Bilan
Statement of Cash Flows	3	État des flux de trésorerie
Notes to Financial Statements	4 - 9	Notes complémentaires

HYDRO 2000 INC. Statement of Earnings and Retained Earnings year ended December 31, 2006

HYDRO 2000 INC. État des résultats et bénéfices non répartis exercice terminé le 31 décembre 2006

	2006	 2005	
REVENUE (note 10)			REVENUS (note 10)
Energy	\$ 1 982 253	\$ 1 931 698	Énergie
Distribution	237 706	291 908	Distribution
	2 219 959	2 223 606	
COST OF POWER	1 982 253	1 931 698	COÛT DE L'ÉNERGIE
	237 706	291 908	
OTHER OPERATING REVENUE	50 649	57 590	AUTRES PRODUITS
	288 355	349 498	
EXPENSES			DÉPENSES
Operation maintenance	74 283	102 814	Exploitation
Billing and collection	121 173	177 978	Facturation et perception
Administration	43 684	39 541	Administration
Depreciation of capital assets	46 492	39 693	Amortissement des immobilisations corporelles
Depreciation of contribution for			Amortissement des apports pour
capital assets	(2 591)	-	immobilisations corporelles
Depreciation of incorporation fees	463	463	Amortissement des frais d'incorporation
	283 504	360 489	
EARNINGS (LOSS) BEFORE INCOME			BÉNÉFICE (PERTE) AVANT IMPÔTS SUR
TAXES	4 851	(10 991)	LE REVENU
Income taxes			Impôts sur le revenu
Current	26 424	7 942	Courant
Guitent	20 424	7 542	Recouvrement lié aux pertes des années
Recovery due to loss carryover	(16 213)	(7 942)	antérieures
Future	(9 287)	(2 025)	Futurs
	924	(2 025)	
NET EARNINGS (LOSS)		(8 966)	BÉNÉFICE NET (PERTE)
INLT EARININGS (LUSS)	3 927	(0 900)	DLIVLITUE IVET (FENTE)
RETAINED EARNINGS, BEGINNING OF YEAR	409 582	418 548	BÉNÉFICES NON RÉPARTIS AU DÉBUT DE L'EXERCICE
RETAINED EARNINGS, END OF YEAR	\$ 413 509	\$ 409 582	BÉNÉFICES NON RÉPARTIS À LA FIN DE L'EXERCICE

HYDRO 2000 INC.

Bilan

au 31 décembre 2006

	2006	2005	
CURRENT ASSETS			ACTIF À COURT TERME
Cash	\$ 480 727	\$ 716 982	Encaisse
Accounts receivable (note 3)	198 374	137 345	Débiteurs (note 3)
Inventories	15 606	15 606	Stocks
Unbilled revenue	380 119	399 765	Revenus non facturés
Income taxes recoverable	-	18 000	Impôts sur le revenu à recevoir
Prepaid expenses	7 759	39 224	Frais payés d'avance
	1 082 585	1 326 922	
INCORPORATION FEES	1 804	2 267	FRAIS D'INCORPORATION
OTHER ASSETS (note 4)	443 132	590 502	AUTRES ACTIFS (note 4)
			IMMOBILISATIONS CORPORELLES
CAPITAL ASSETS (note 5)	371 625	364 164	(note 5)
	\$ 1 899 146	\$ 2 283 855	
			,
CURRENT LIABILITIES			PASSIF À COURT TERME
Accounts payable	\$ 302 740	\$ 517 833	Créditeurs
Other current liabilities	177 811	222 555	Autres frais courus
Income taxes payable	10 211	-	Impôts sur le revenu à payer
			Tranche de billet à payer échéant
Current portion of note payable (note 7)	23 803	22 546	à moins d'un an (note 7)
Current portion of other long-term liabilities (note 8)	107 511	107 100	Tranche des autres passifs à long terme échéant à moins d'un an (note 8)
madifiles (note 6)	137 511	137 130	echeant a moins dun an (note 8)
	652 076	900 064	
NOTE PAYABLE (note 7)	324 713	348 516	BILLET À PAYER (note 7)
FUTURE INCOME TAXES	66 955	76 242	IMPÔTS FUTURS
OTHER LONG-TERM LIABILITIES (note 8)	133 158	240 716	AUTRES PASSIFS À LONG TERME (note 8)
	1 176 902	1 565 538	
OLIABELIOI DEDIO FOLUTA			CARITALLY PROPERTY
SHAREHOLDER'S EQUITY	000 -0-	000 705	CAPITAUX PROPRES
Share capital (note 9)	308 735	308 735	Capital-actions (note 9)
Retained earnings	413 509	409 582	Bénéfices non répartis
	722 244	718 317	
	\$ 1 899 146	\$ 2 283 855	
ON BEHALF OF THE BOARD			AU NOM DU CONSEIL
Director			Administrateur
Director			Administrateur

HYDRO 2000 INC. État des flux de trésorerie exercice terminé le 31 décembre 2006

	2006	2005	
OPERATING			EXPLOITATION
Net earnings (loss)	\$ 3 927	\$ (8 966)	Bénéfice net (perte)
Adjustments for:			Ajustements pour:
Depreciation of incorporation fees	463	463	Amortissement des frais d'incorporation
			Amortissement des immobilisations
Depreciation of capital assets	46 492	39 693	corporelles
Depreciation of contribution for			Amortissement des apports pour
capital assets	(2 591)	-	immobilisations corporelles
Future income taxes	(9 287)	(2 025)	Impôts futurs
Changes in non-cash operating working			Variation des éléments hors caisse du fonds
capital items (note 11)	(241 544)	291 544	de roulement d'exploitation (note 11)
	(202 540)	320 709	
FINANCINO			ENIANOFMENT
FINANCING			FINANCEMENT Augmentation (diminution) des autres passife
Increase (decrease) of other long-term liabilities	(107 177)	26 547	Augmentation (diminution) des autres passifs à long terme
Repayment of note payable	(22 546)	(21 356)	Remboursement du billet à payer
Repayment of note payable	(22 340)	(21 330)	Augmentation des apports pour
Increase of contribution for capital assets	64 783	_	immobilisations corporelles
	(64 940)	5 191	
INVESTING			INVESTISSEMENT
Acquisition of capital assets	(116 145)	(53 641)	Acquisition d'immobilisations corporelles
Decrease of other assets	147 370	66 352	Diminution des autres actifs
	31 225	12 711	
NET CASH INFLOW (OUTFLOW)	(236 255)	338 611	AUGMENTATION (DIMINUTION) DE L'ENCAISSE
			,
CASH, BEGINNING OF YEAR	716 982	378 371	ENCAISSE AU DÉBUT DE L'EXERCICE
CASH, END OF YEAR	\$ 480 727	\$ 716 982	ENCAISSE À LA FIN DE L'EXERCICE

Additional information is presented in note 11.

Des renseignements complémentaires sont présentés à la note 11.

HYDRO 2000 INC.

Notes to Financial Statements year ended December 31, 2006

HYDRO 2000 INC.

Notes complémentaires exercice terminé le 31 décembre 2006

1. DESCRIPTION OF BUSINESS

The Corporation is incorporated under the Ontario Business Corporations Act and is engaged in the distribution of electricity.

2. ACCOUNTING PRINCIPLES

The financial statements have been prepared in accordance with Canadian generally accepted accounting principles with rate regulation specifications described under the other assets heading for electricity distributors as required by the Ontario Energy Board and set forth in the Accounting Procedures Handbook:

INVENTORIES

Inventories are valued at the lower of average cost and replacement cost.

CAPITAL ASSETS AND DEPRECIATION

Capital assets are recorded at cost. Depreciation is calculated on the basis of the straight-line method with reference to estimated useful lives of the assets in accordance with Ontario Energy Board policy at the following terms:

Distribution equipment	25
Office equipment	10
Computer equipment	5

INCORPORATION FEES

Incorporation fees are accounted at cost and amortized using the straight-line method over a ten year period.

CUSTOMERS' DEPOSITS

Deposits are taken to guarantee the payment of power bills or contract performance.

IMPAIRMENT OF LONG-LIVED ASSETS

Long-lived assets are tested for recoverability whenever events or changes in circumstances indicate that their carrying amount may not be recoverable. An impairment loss is recognized when their carrying value exceeds the total undiscounted cash flows expected from their use and eventual disposition. The amount of the impairment loss is determined as the excess of the carrying value of the asset over its fair value.

1. DESCRIPTION DE L'ENTREPRISE

La Société est constituée en vertu de la Loi sur les sociétés par actions de l'Ontario et se spécialise dans la distribution de l'électricité.

2. PRINCIPES COMPTABLES

Les états financiers ont été préparés conformément aux principes comptables généralement reconnus du Canada et tiennent compte des particularités énumérées sous la rubrique des autres actifs pour les distributeurs d'électricité tel que requis par la Commission de l'Énergie de l'Ontario et établis dans le "Accounting Procedures Handbook":

STOCKS

Les stocks sont évalués au moins élevé du coût moyen et la valeur de remplacement.

IMMOBILISATIONS CORPORELLES ET AMORTISSEMENT

Les immobilisations corporelles sont comptabilisées au coût. L'amortissement est calculé selon la méthode de l'amortissement linéaire répartie sur la durée estimative de vie utile de l'immobilisation selon les politiques de la Commission de l'énergie de l'Ontario aux termes suivants:

Équipement de distribution	25
Équipement de bureau	10
Équipement informatique	5

Années

FRAIS D'INCORPORATION

Les frais d'incorporation sont comptabilisés au coût et amortis linéairement sur une période de dix ans.

DÉPÔTS DE CLIENTS À LONG TERME

Des dépôts sont pris en garantie de paiement de la facturation ou de contrat.

DÉPRÉCIATION D'ACTIFS À LONG TERME

Les actifs à long terme sont soumis à un test de recouvrabilité lorsque des événements ou des changements de situation indiquent que leur valeur comptable pourrait ne pas être recouvrable. Une perte de valeur est constatée lorsque leur valeur comptable excède les flux de trésorerie non actualisés découlant de leur utilisation et de leur sortie éventuelle. La perte de valeur constatée est mesurée comme étant l'excédent de la valeur comptable de l'actif sur sa juste valeur.

Years

2. ACCOUNTING PRINCIPLES (following)

OTHER ASSETS

Purchased power costs are included in allowed rates on a forecast basis. For rate-setting purposes, differences between forecast and actual purchased power costs in the rate year are held until the following year, when their final disposition is decided. Hydro 2000 Inc. recognizes purchased power cost variances as a regulatory asset or liability, based on the expectation that amounts held from one year to the next for rate-setting purposes will be approved for collection from, or refund to, customers. In the absence of rate regulation, generally accepted accounting principles would require that actual purchased power costs be recognized as an expense when incurred.

The assets, other than variances, are recorded at cost in accordance with accounting principles as required by the Ontario Energy Board.

For certain of the regulatory items identified above, the expected recovery or settlement period, or likelihood of recovery or settlement, is affected by risks and uncertainties relating to the ultimate authority of the regulator in determining the item's treatment for rate-setting purposes. Any disallowed costs will be expensed in the year that they are disallowed.

Recoveries for these assets are presented in a separate account until the Ontario Energy Board approves the recoveries. At that time, recoveries will be applied against the regulated assets.

The financial statements effects of rate regulation are presented in note 13.

USE OF ESTIMATES

The preparation of financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from these estimates.

2. PRINCIPES COMPTABLES (suite)

AUTRES ACTIFS

Les coûts associés à l'énergie achetée sont pris en compte dans les tarifs autorisés, sur une base prévisionnelle. Aux fins de l'établissement des tarifs, les écarts entre les coûts prévus et les coûts réels associés à l'énergie achetée au cours de l'année de tarification sont laissés en suspens jusqu'à l'année suivante, au cours de laquelle leur traitement définitif est déterminé. Hydro 2000 Inc. comptabilise les écarts de coûts associés à l'énergie achetée à titre d'actif ou de passif réglementaire. parce que la Société s'attend à obtenir l'autorisation de recouvrer auprès des clients futurs les montants laissés en suspens d'une année à l'autre aux fins de l'établissement des tarifs, ou à devoir rembourser les montants à ces clients. Si les tarifs n'étaient pas réglementés, les coûts réels associés à l'énergie achetée devraient être passés en charges au moment où ils sont engagés, selon les principes comptables généralement reconnus.

Les actifs autres que les écarts de prix ont aussi été établis selon les règles de la Commission de l'Énergie. Ils ont été comptabilisés au coût.

Dans le cas de certains des éléments réglementaires mentionnés ci-dessus, les risques et incertitudes découlant du pouvoir ultime de l'autorité de réglementation de déterminer le traitement de l'élément aux fins de la tarification influent sur la période prévue de recouvrement ou de règlement, ou sur la probabilité de recouvrement ou de règlement. Les montants refusés seront imputés aux résultats dans l'année où ils seront refusés.

Les recouvrements pour tous ces frais sont identifiés dans un compte distinct et seront appliqués contre les actifs suite à l'approbation par la Commission de l'Énergie.

Les effets de la règlementation des tarifs sont décris à la note 13.

UTILISATION D'ESTIMATIONS

Dans le cadre de la préparation des états financiers, la direction doit établir des estimations et des hypothèses qui ont une incidence sur les montants des actifs et des passifs présentés et sur la présentation des actifs et des passifs éventuels à la date des états financiers, ainsi que sur les montants des produits d'exploitation et des charges constatés au cours de la période visée par les états financiers. Les résultats réels pourraient varier par rapport à ces estimations.

HYDRO 2000 INC. Notes complémentaires exercice terminé le 31 décembre 2006

3.	ACCOUNTS RECEIVABLE	2006	2005	3.	DÉBITEURS
	Electrical energy Other	\$ 180 664 21 373	\$ 71 409 69 772		Énergie électrique Autres
		202 037	141 181		
	Allowance for doubtful account	(3 663)	(3 836)		Provision pour mauvaises créances
		\$ 198 374	\$ 137 345		
4.	OTHER ASSETS			4.	AUTRES ACTIFS
	Smart meters LV - Wheeling Other regulatory assets Transition costs Pre-market opening energy variance Retail settlement variance account Recoveries	\$ (2 402) 21 012 39 141 156 397 186 893 428 915 (386 824) \$ 443 132	\$ - - 35 684 154 714 179 673 406 830 (186 399) \$ 590 502		Compteurs intelligents Distribution à faible tension Autres actifs réglementés Frais de transition Écarts de prix avant ouverture du marché Écarts de prix avec les détaillants Recouvrements

5. CAPITAL ASSETS

		2006		2005
	Cost/coût	Accumu- lated de- preciation/ Amortis- sement cumulé	Net book value/ Valeur nette	Net book value/ Valeur nette
Distribution equipment Office equipment Computer equipment Capital contribution	\$ 614 070 3 246 48 217 (64 783)	\$ 203 824 2 910 24 982 (2 591)	\$ 410 246 336 23 235 (62 192)	\$ 348 265 390 15 509
	\$ 600 750	\$ 229 125	\$ 371 625	\$ 364 164

IMMOBILISATIONS CORPORELLES

Équipement de distribution Équipement de bureau Équipement informatique Apports en immobilisations

6. LETTER OF GUARANTEE

The Corporation has a letter of guarantee of \$ 500 000 in favour of Hydro One. It is secured by the accounts receivable and some equipment.

6. LETTRE DE GARANTIE

La Société a une lettre de garantie en faveur de Hydro One pour un montant de \$500 000. Elle est garantie par les comptes à recevoir et certains équipements.

HYDRO 2000 INC. Notes complémentaires exercice terminé le 31 décembre 2006

7.	NOTE PAYABLE	2006	2005	7.	BILLET À PAYER
	Note payable to the Township of Alfred- Plantagenet, 5.5% interest, payable in semi-annual payments of \$21 324, including interest	\$ 348 516	\$ 371 062		Billet à payer au Canton d'Alfred- Plantagenet, au taux de 5.5%, en versements semi-annuels de \$ 21 324 incluant les intérêts
	Current portion	23 803	22 546		Portion à court terme
	Principal repayments to be made during the next five years are as follows: 2007, \$ 23 803; 2008, \$ 25 131; 2009, \$ 26 532; 2010, \$ 28 011 and 2011 \$ 29 573.	\$ 324 713	\$ 348 516		Les versements en capital à effectuer au cours des cinq prochains exercices sont les suivants: 2007, \$23 803; 2008, \$25 131; 2009, \$26 532; 2010 \$28 011 et 2011 \$29 573.
8.	OTHER LONG-TERM LIABILITIES			8.	AUTRES PASSIFS À LONG TERME
	Customer deposits Hydro One	\$ 21 126 249 543	\$ 20 789 357 057		Dépôts de clients Hydro One
	Current portion	270 669 137 511	377 846 137 130		Portion à court terme
	Amount owed to Hydro One is to be repaid as follows: 2007, \$120 516; 2008, \$63 440; 2009, \$52 008 and 2010, \$13,579.	\$ 133 158	\$ 240 716		Les sommes dues à Hydro One doivent être remboursées de la façon suivante : 2007, \$ 120 516; 2008, \$ 63 440; 2009, \$ 52 008 et 2010, \$ 13 579.
9.	SHARE CAPITAL			9.	CAPITAL-ACTIONS
	Authorized Unlimited number of Class "A" voting shares Unlimited number of Class "B" voting shares, non-participating Unlimited number of Class "C" non-voting shares, non-participating				Autorisé Nombre illimité d'actions de classe "A", votantes Nombre illimité d'actions de classe "B", votantes, non participantes Nombre illimité d'actions de classe"C", non votantes, non participantes
	Issued 1 Class "A" share	\$ 308 735	\$ 308 735		<i>Émis</i> 1 action de classe "A",
10.	REVENUE			10.	REVENUS
	ENERGY				ÉNERGIE
	Residential General < 50 KW General > 50 KW Street light	\$ 1 175 656 409 340 362 845 34 412	\$ 1 126 243 389 996 389 585 25 874		Résidentiel Général < 50 KW Général > 50 KW Éclairage des rues
	DISTRIBUTION	\$ 1 982 253	\$ 1 931 698		DISTRIBUTION
	Residential General < 50 KW General > 50 KW Street light	\$ 162 628 53 072 12 271 9 735	\$ 209 063 61 971 16 202 4 672		Résidentiel Général < 50 KW Général > 50 KW Éclairage des rues
		\$ 237 706	\$ 291 908		

11.	ADDITIONAL INFORMATION RELA- TING TO THE STATEMENT OF CASH FLOWS			11. RENSEIGNEMENTS COMPLÉMEN- TAIRES À L'ÉTAT DES FLUX DE TRÉSORERIE
	FLOWS	2006	2005	TRESORERIE
	Changes in non-cash operating working capital items	2000		Variation des éléments hors caisse du fonds de roulement d'exploitation
	Accounts receivable Unbilled revenue Prepaid expenses Accounts payable Other current liabilities Income taxes	\$ (61 029) 19 646 31 465 (215 093) (44 744) 28 211	\$ 50 424 (23 723) (34 780) 219 707 53 292 26 624	Débiteurs Revenus non facturés Frais payés d'avance Créditeurs Autres frais courus Impôts sur le revenu
		\$ (241 544)	\$ 291 544	
	Other information	\$ (241 544)	Ψ 231 344	Autres renseignements
	Interest paid Income taxes recovered	\$ 20 102 \$ (18 000)	\$ 21 292 \$ (26 624)	Intérêts payés Impôts recouvrés
12.	RELATED PARTY TRANSACTIONS			12. OPÉRATIONS ENTRE APPARENTÉS
	The following amounts were paid to the Township of Alfred-Plantagenet, the only shareholder of the Corporation			Les montants suivants ont été versés au Canton d'Alfred-Plantagenet, l'uni- que actionnaire de la Société
	Long-term debt Principal Interest Rent	\$ 22 546 20 102 7 873	\$ 21 356 21 292 7 711	Dette à long terme Principal Intérêts Loyer
		\$ 50 521	\$ 50 359	
13.	FINANCIAL STATEMENT'S EFFECTS OF RATE REGULATION			13. EFFETS DE LA RÉGLEMENTATION DES TARIFS SUR LES ÉTATS FINANCIERS
	Earnings (loss) before income taxes in accordance with accounting principles for electricity distributers as required by the Ontario Energy Board	\$ 4851	\$ (10 991)	Bénéfice (perte) avant impôts sur le revenu conformément aux principes comptables pour les distributeurs d'électricité tels que requis par la Commission de l'Énergie de l'Ontario
	Expenses included in other assets	(19 846)	(28 500)	Dépenses incluses dans les autres actifs
	Carrying charges on other assets	(19 336)	(36 083)	Frais d'intérêts sur les autres actifs
	Depreciation of capital assets included in other assets	(5 701)	(7 014)	Amortissement des immobilisations corporelles inclus dans les autres actifs
	Amortization of a billing contract	(19 258)	(19 258)	Amortissement d'un contrat pour la facturation
	Recoveries	186 552	130 935	Recouvrements
	Adjusted earnings before income taxes and before the effect of the regulation on the financial statements	\$ 127 262	\$ 29 089	Bénéfice avant impôts sur le revenu et avant l'effet de la réglementation sur les états financiers

HYDRO 2000 INC. Notes to Financial Statements year ended December 31, 2006

HYDRO 2000 INC. Notes complémentaires exercice terminé le 31 décembre 2006

14. RECLASSIFICATION

Certain of comparative figures have been reclassified to conform to the current year's presentation.

14. RECLASSEMENT

Certains chiffres de l'exercice précédent ont été reclassés afin que leur présentation soit conforme à celle adaptée pour l'exercice courant.

Exhibit: 1 Tab: 3

Schedule: 2 Page: 1

Hydro 2000 Inc.

PRO FORMA FINANCIAL STATEMENTS AT DECEMBER 31, 2007

BRIDGE YEAR

Sum of Amount				
GroupDesc	Total	Adjustment	Pro-Forma	
1050-Current Assets	1,058,096	0	1,058,096	
1100-Inventory	15,606		15,606	
1200-Other Assets and Deferred Charges	292,955		292,955	
1300-Intangible Plant	1,341		1,341	
1450-Distribution Plant	693,250		693,250	
1500-General Plant	(13,703)		(13,703)	
1550-Other Capital Assets	0		0	
1600-Accumulated Amortization	(277,959)		(277,959)	
1650-Current Liabilities	(652,579)	(24,278)	(676,857)	
1700-Non-Current Liabilities	(4,131)		(4,131)	
1800-Long-Term Debt	(324,713)		(324,713)	
1850-Shareholders' Equity	(788,163)	24,278	(763,885)	
Balance Sheet Total	(0)		(0)	

FinStmt	PL
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Sum of Amount			
GroupDesc	Total	Adjustment	Pro-Forma
3000-Sales of Electricity	-2,051,911	0	-2,051,911
3050-Revenues From Services - Distirbution	-346,100		-346,100
3100-Other Operating Revenues	-14,404		-14,404
3150-Other Income & Deductions	-596		-596
3200-Investment Income	-16,314		-16,314
3350-Power Supply Expenses	2,051,911		2,051,911
3500-Distribution Expenses - Operation	738		738
3550-Distribution Expenses - Maintenance	3,717		3,717
3650-Billing and Collecting	85,914		85,914
3800-Administrative and General Expenses	136,340		136,340
3850-Amortization Expense	48,834		48,834
3900-Interest Expense	15,895		15,895
4000-Income Taxes	-8,326	24,278	15,952
4100-Extraordinary & Other Items	300		300
Net Income	-94,000		-94,000

Exhibit: 1 Tab: 3 Schedule: 2

Page: 1

Hydro 2000 Inc.

PRO FORMA FINANCIAL STATEMENTS AT DECEMBER 31, 2008

TEST YEAR

FinStmt	BS
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Sum of Amount			
GroupDesc	Total	Adjustment	Pro-Forma
1050-Current Assets	1,058,096	0	1,058,096
1100-Inventory	15,606		15,606
1200-Other Assets and Deferred Charges	175,548		175,548
1300-Intangible Plant	1,341		1,341
1450-Distribution Plant	833,250		833,250
1500-General Plant	(13,703)		(13,703)
1550-Other Capital Assets	0		0
1600-Accumulated Amortization	(334,528)		(334,528)
1650-Current Liabilities	(801,815)	(5,095)	(806,910)
1700-Non-Current Liabilities	(4,131)		(4,131)
1800-Long-Term Debt	(299,582)		(299,582)
1850-Shareholders' Equity	(630,083)	5,095	(624,988)
Balance Sheet Total	0		0

Sum of Amount			
GroupDesc	Total	Adjustment	Pro-Forma
3000-Sales of Electricity	(2,061,630)	0	(2,061,630)
3050-Revenues From Services - Distribution	(362,699)		(362,699)
3100-Other Operating Revenues	(14,404)		(14,404)
3150-Other Income & Deductions	(596)		(596)
3200-Investment Income	(16,314)		(16,314)
3350-Power Supply Expenses	2,061,630		2,061,630
3500-Distribution Expenses - Operation	738		738
3550-Distribution Expenses - Maintenance	3,717		3,717
3650-Billing and Collecting	87,657		87,657
3800-Administrative and General Expenses	197,631		197,631
3850-Amortization Expense	56,569		56,569
3900-Interest Expense	11,933		11,933
4000-Income Taxes	697	5,095	5,792
4100-Extraordinary & Other Items	300		300
Net Income	(34,770)		(34,770)

Exhibit: 1

Tab: 3

Schedule: 2 Page: 2

Hydro 2000 Inc.

RECONCILIATION BETWEEN FINANCIAL STATEMENTS AND FINANCIAL RESULTS FILED



Deloitte & Touche LLP 300 McGill Street Hawkesbury, ON K6A 1P8

Tel: (613) 632-4178 Fax: (613) 632-7703 www.deloitte.ca

Ontario Energy Board PO Box 2319 26th Floor 2300 Yonge Street Toronto, Ontario M4P 1E4 September 10, 2007

Sir, Madam:

This letter is to confirm the changes made to the 2006 audited balances of Hydro 2000 Inc. (License number EB-2007-0704) pursuant to RP-2005-0020. Regulations assets amounts approved by the Board for recovery in rates were recorded in 2006. Those changes affected only note 4 of the audited financial statements. The changes are shown below:

2006 Audited Financial Statements	Adjustments	2006 Adjusted Financial Statements	
\$ (2,402) 21,012 39,141 156,397 186,893 428,915 (386,824)	\$ - (34,596) (156,397) (186,893) (404,322) 782,208	\$ (2,402) 21,012 4,545 - 24,593 395,384 \$ 443,132	
	Financial Statements \$ (2,402) 21,012 39,141 156,397 186,893 428,915	Financial Statements Adjustments \$ (2,402) \$ - 21,012 - 39,141 (34,596) 156,397 (156,397) 186,893 (186,893) 428,915 (404,322) (386,824) 782,208	

We hope the above to be to your entire satisfaction.

Lelotte & Vouche LLP

Yours truly,

Chartered Accountants

Licensed Public Accountants

GDH/dr

Exhibit: 1

Tab: 3 Schedule: 4

Page: 1

Hydro 2000 Inc.

PROPOSED ACCOUNTING TREATMENT

Not applicable all projects are less than a year or decompose in phase less than a year.

INFORMATION ON PARENT AND SUBSIDIARIES

Not applicable no affiliates.

File Number: <u>EB-2007-0704</u> Exhibit: <u>2</u> Tab: 1

Schedule: 0 Page: 1

2 - Rate Base		
1		<u>Overview</u>
	1	Rate Base Overview
	2	Rate Base Summary Table
	3	Variance Analysis on Rate Base Table
2		Out of Access - Duaments - Dient and Environment Accommutated
2		Gross Assets – Property, Plant and Equipment Accumulated
		<u>Depreciation</u>
	1	Continuity Statements
	2	Gross Assets Table
	3	Materiality Analysis on Gross Assets
	4	Accumulated Depreciation Table
	5	Materiality Analysis on Accumulated Depreciation
3		Capital Budget
	1	Capital Budget by Project
	2	Materiality Analysis on Capital Additions
	3	System Expansions
	4	Capitalization Policy
4		Allowance for Working Capital
	1	Overview and Calculation by Account

File Number: <u>EB-2007-0704</u>

Exhibit: 2 Tab: 1 Schedule: 1 Page: 1

Hydro 2000 Inc.

RATE BASE OVERVIEW

A projection of the Applicant's rate base is provided for both the Bridge Year (2007) and the Test Year (2008). Historical data pertaining to rate base is also presented for 2002 through to 2006 Actual.

The Applicant's forecast rate base for the test year is \$799,349. The rate base underlying the test year revenue requirement includes a forecast of net fixed assets, plus a working capital allowance. Net fixed assets are gross assets in service minus accumulated depreciation and contributed capital. Details for the utility's working capital allowance is provided at Exhibits 2, Tab 4, Schedule 1.

Continuity schedules for Historical Board Approved, Historical Actual, Bridge and Test years are provided at Exhibit 2, Tab 2, Schedule 1.

Gross Asset - Property, Plant and Equipment and Accumulated Depreciation

The bridge and test year's gross asset balance reflects the capital expenditure programs forecast for both years. These programs are described in detail in the company's written evidence at Exhibits 2, Tab 2, Schedule 1. The justification for capital projects in excess of 1% of the net fixed assets are filed at Exhibit 2, Tab 3, Schedule 1.

Capital Budget

The Capital Budget Section is composed of Capital Budget by Project (Exhibit 2, Tab 3, Schedule 1), Materiality Analysis on Capital Addition (Exhibit 2, Tab 3, Schedule 2), System Expansion (Exhibit 2, Tab 3, Schedule 3) and Capitalization Policy (Exhibit 2, Tab 3, Schedule 4).

Allowance for Working Capital

Overview and Calculation by account for Allowance for Working Capital is provided at Exhibit 2, Tab 4, Schedule 1.

2006 Board Approved	\$304,312
2006 Actual	\$330,114
2007 Bridge Year	\$331,344
2008 Test Year	\$356,047

File Number<u>: EB-2007-0704</u>
Exhibit<u>: 2</u>
Tab<u>:</u> 1 Schedule: 2
Page: 1

Hydro 2000 Inc.

RATE BASE SUMMARY TABLE

RATE BASE SUMMARY	2006 Board Approved	2006 Actual	Variance form 2006 Board Approved	2006 Actual	2007 Bridge	Varianc e form 2006 Actual	2007 Bridge	2008 Test	Variance form 2007 Bridge
	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)
Gross Asset Asset Values at Cost	\$ 478,722	\$ 575,069	\$ 96,347	\$ 575,069	\$ 640,149	\$ 65,080	\$ 640,149	\$749,548	\$109,399
Accumulated Depreciation Depreciation	\$ 127,354	\$ 207,175	\$ 79,821	\$ 207,175	\$ 253,543	\$ 46,369	\$ 253,543	\$306,246	\$ 52,703
Net Fixed Asset	\$ 351,368	\$ 367,895	\$ 16,527	\$ 367,895	\$ 386,606	\$ 18,712	\$ 386,606	\$443,302	\$ 56,696
Allowance for Working Capital	\$ 304,312	\$ 330,114	\$ 25,802	\$ 330,114	\$ 331,344	\$ 1,230	\$ 331,344	\$356,047	\$ 24,703
Utility Rate Base	\$ 655,680	\$ 698,009	\$ 42,329	\$ 698,009	\$ 717,950	\$ 19,942	\$ 717,950	\$799,349	\$ 81,399

File Number: <u>EB-2007-0704</u>

Exhibit: 2
Tab: 1
Schedule: 3
Page: 1

Hydro 2000 Inc.

VARIANCE ANALYSIS ON RATE BASE SUMMARY TABLE

A summary of utility rate base is presented in Exhibit 2, Tab 2, Schedule 1.

2008 Test Year

As shown in Exhibit 2, Tab 2, Schedule 1, the total rate base in the 2008 test year is forecast to be \$799,349. Net fixed assets accounts for \$443,302 of this total. The allowance for working capital totals \$356,047.

Comparison to 2007 Bridge Year

The total rate base is expected to be \$799,349 or 11.33% higher in the 2008 test year than in the 2007 bridge year. This increase is shown in Exhibit 2, Tab 2, Schedule 1. This increase is the result of several capital projects in the 200 7 Bridge and 2008 Test Year. Net fixed assets accounts for \$486,606 of this total. The allowance for working capital totals \$356,047.

2007 Bridge Year

The total rate base is expected to be \$717,950 or 2.85% higher in the 2007 Bridge Year than in the 2006 Actual Year. This increase is shown in Exhibit 2, Tab 2, Schedule 1. This increase is the result of several capital projects in the 2006 Actual and 2007 Bridge Year. Net fixed assets accounts for \$443,302 of this total. The allowance for working capital totals \$331,344.

2006 Actual

The total rate base is \$698,009 or 6.45% higher in the 2006 Actual Year than in the 2006 Board Approved Year. This increase is shown in Exhibit 2, Tab 2, Schedule 1. This increase is the result of several capital projects in the 2006 Actual Year. Net fixed assets accounts for \$367,895 of this total. The allowance for working capital totals \$330,114.

2006 Board Approved

The total rate base for 2006 Board Approved Year is \$655,680. Net fixed assets accounts for \$351,368 of this total. The allowance for working capital totals \$304,312.

Exhibit: 2 Tab: 2

Schedule: 1 Page:1

Hydro 2000 Inc.

CONTINUITY STATMENTS

CONTINUITY STATEMENTS	2006 Actual			2007 Bridge			2008 Test		
	Gross Asset Value	Accumulated Depreciation	Net Book Value	Gross Asset Value	Accumulated Depreciation	Net Book Value	Gross Asset Value	Accumulated Depreciation	Net Book Value
Land and Buildings		·			•				
1805-Land -Opening Balance			-	-	-	-	-	-	-
1805-Land -Additions			-			-			-
1805-Land -Depreciation			-			-			-
1805-Land -Adjustments			-			-			
1805-Land -Closing Balance		=		_	-	-	_	-	-
Average				-	-	-	-	-	-
1806-Land Rights -Opening Balance			-	-	-	-	-	-	-
1806-Land Rights -Additions			-			-			-
1806-Land Rights -Depreciation			-			-			-
1806-Land Rights -Adjustments			<u>-</u>			<u>-</u>			<u>-</u>
1806-Land Rights -Closing Balance		-	-	-	-	-	-	-	-
Average				-	-	-	-	-	-
1905-Land -Opening Balance			-	-	-	-	-	-	-
1905-Land -Additions			-			-			-
1905-Land -Depreciation			-			-			-
1905-Land -Adjustments			-			<u>-</u>			<u>-</u>
1905-Land -Closing Balance	<u>-</u>	-	-		-	-		-	-
Average				-	-	-	-	-	-

Exhibit: 2 Tab: 2 Schedule: 1

Page:2

1906-Land Rights-Opening Balance		-	-	-	-	-	-	-
1906-Land Rights-Additions		-			-			-
1906-Land Rights-Depreciation		-			-			-
1906-Land Rights -Adjustments		-			-	· -		-
1906-Land Rights -Closing Balance		-		-	-		-	-
Average			-	-	-	<u>-</u>	-	
1810-Leasehold Improvements-Opening Balance		-	-	-	-	-	-	-
1810-Leasehold Improvements-Additions		-			-			-
1810-Leasehold Improvements-Depreciation		-			-			-
1810-Leasehold Improvements -Adjustments		-			-	<u></u>		-
1810-Leasehold Improvements -Closing Balance		-	-	-	-	-	-	-
Average			_	_	_		_	_
-								
Total	<u>.</u> .	-	-	-	<u>-</u>	<u>-</u>	-	
-		-	-	-	-		-	<u> </u>
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary		-	-	-	-		<u>.</u>	
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary		-	-	-	-	<u>-</u> -	-	<u>-</u>
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary		- -	-	-	- -	-	-	<u>-</u> -
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary above 50 kV-Depreciation 1815-Transformer Station Equipment - Normally Primary		- - -	-	-	- - -	<u>-</u>	-	- - -
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary above 50 kV-Depreciation 1815-Transformer Station Equipment - Normally Primary above 50 kV-Adjustments		- - - -	-	-	- - - -	-	-	- - - -
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary above 50 kV-Depreciation 1815-Transformer Station Equipment - Normally Primary		- - - -	-	-	- - - -	- -	-	- - - -
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary above 50 kV-Depreciation 1815-Transformer Station Equipment - Normally Primary above 50 kV-Adjustments 1815-Transformer Station Equipment - Normally Primary		- - - -	-	-	- - - - -	- -	-	- - - - -
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary above 50 kV-Depreciation 1815-Transformer Station Equipment - Normally Primary above 50 kV-Adjustments 1815-Transformer Station Equipment - Normally Primary above 50 kV-Closing Balance	<u>-</u> -	- - - -	- -	- -	- - - - - -	- - - -	- -	- - - - -
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary above 50 kV-Depreciation 1815-Transformer Station Equipment - Normally Primary above 50 kV-Adjustments 1815-Transformer Station Equipment - Normally Primary above 50 kV-Closing Balance Average		- - - - -	-	-	- - - - -	- - - - -	- - - -	- - - - -
Total TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV-Opening Balance 1815-Transformer Station Equipment - Normally Primary above 50 kV-Additions 1815-Transformer Station Equipment - Normally Primary above 50 kV-Depreciation 1815-Transformer Station Equipment - Normally Primary above 50 kV-Adjustments 1815-Transformer Station Equipment - Normally Primary above 50 kV-Closing Balance Average		- - - - -	- - -	- -	- - - - -	- - - -	- -	- - - - - -

Exhibit: 2 Tab: 2 Schedule: 1 Page:3

1820-Distribution Station Equipment - Normally Primary below 50 kV-Additions 1820-Distribution Station Equipment - Normally Primary below 50 kV-Depreciation 1820-Distribution Station Equipment - Normally Primary below 50 kV-Adjustments 1820-Distribution Station Equipment - Normally Primary below 50 kV-Closing Balance Average Total		-	-	- - -		- - - - -	- - -		- - - - -
Poles and Wires									
1830-Poles, Towers and Fixtures-Opening Balance	187,032	57,005	130,027	194,996	69,756	125,240	194,996	82,506	112,490
1830-Poles, Towers and Fixtures-Additions	7,964		7,964			-			-
1830-Poles, Towers and Fixtures-Depreciation		12,751	(12,751)		12,750	(12,750)		12,750	(12,750)
1830-Poles, Towers and Fixtures-Adjustments			-			<u>-</u>	-		-
1830-Poles, Towers and Fixtures-Closing Balance	194,996	69,756	125,240	194,996	82,506	112,490	194,996	95,256	99,740
Average				194,996	76,131	118,865	194,996	88,881	106,115
1835-Overhead Conductors and Devices-Opening Balance	161,091	54,758	106,333	179,684	66,897	112,787	179,684	79,036	100,648
1835-Overhead Conductors and Devices-Additions	18,593		18,593			-	40,000		40,000
1835-Overhead Conductors and Devices-Depreciation		12,139	(12,139)		12,139	(12,139)		12,939	(12,939)
1835-Overhead Conductors and Devices-Adjustments			-						
1835-Overhead Conductors and Devices-Closing Balance	179,684	66,897	112,787	179,684	79,036	100,648	219,684	91,975	127,709
Average				179,684	72,967	106,718	199,684	85,506	114,179
1840-Underground Conduit-Opening Balance			-	13,405	536	12,869	13,405	1,072	12,333
1840-Underground Conduit-Additions	13,405		13,405			-			-
1840-Underground Conduit-Depreciation		536	(536)		536	(536)		536	(536)
1840-Underground Conduit-Adjustments			-			<u> </u>			-
1840-Underground Conduit-Closing Balance				· -					

File Number: EB-2007-0704 Exhibit: 2 Tab: 2 Schedule: 1

Page:4

	13,405	536	12,869	13,405	1,072	12,333	13,405	1,608	11,797
Average				13,405	804	12,601	13,405	1,340	12,065
1845-Underground Conductors and Devices-Opening Balance	63,209	17,412	45,797	64,201	21,180	43,021	127,182	26,209	100,973
1845-Underground Conductors and Devices-Additions	992		992	62,981		62,981			-
1845-Underground Conductors and Devices-Depreciation		3,768	(3,768)		5,029	(5,029)		6,288	(6,288)
1845-Underground Conductors and Devices-Adjustments			-	<u> </u>		<u>-</u>			-
1845-Underground Conductors and Devices-Closing Balance	64,201	21,180	43,021	127,182	26,209	100,973	127,182	32,497	94,685
Average				95,692	23,695	71,997	127,182	29,353	97,829
Total	452,286	158,369	293,917	515,267	188,823	326,444	555,267	221,336	333,931
Line Transfermers									
Line Transformers		40.500		00.405	00.545	07.050			40.040
1850-Line Transformers-Opening Balance	57,033	18,533	38,500	60,495	22,545	37,950	76,694	26,881	49,813
1850-Line Transformers-Additions	3,462		3,462	16,199		16,199			-
1850-Line Transformers-Depreciation		4,012	(4,012)		4,336	(4,336)		4,660	(4,660)
1850-Line Transformers-Adjustments			-			<u>-</u>			-
1850-Line Transformers-Closing Balance	60,495	22,545	37,950	76,694	26,881	49,813	76,694	31,541	45,153
Average				68,595	24,713	43,882	76,694	29,211	47,483
Total	60,495	22,545	37,950	76,694	26,881	49,813	76,694	31,541	45,153
Services and Meters									
				5 0.400			50.400		40.000
1855-Services-Opening Balance			-	52,400	2,096	50,304	52,400	4,192	48,208
1855-Services-Additions	52,400		52,400			-			-
1855-Services-Depreciation		2,096	(2,096)		2,096	(2,096)		2,096	(2,096)
1855-Services-Adjustments			-	<u> </u>		<u>-</u>			
1855-Services-Closing Balance	52,400	2,096	50,304	52,400	4,192	48,208	52,400	6,288	46,112
Average				52,400	3,144	49,256	52,400	5,240	47,160

Exhibit: 2 Tab: 2

Tab: 2 Schedule: 1 Page:5

1860-Meters-Opening Balance	44,839	17,231	27,608	48,889	20,814	28,075	48,889	24,397	24,492
1860-Meters-Additions	4,050		4,050			-	100,000		100,000
1860-Meters-Depreciation		3,583	(3,583)		3,583	(3,583)		5,583	(5,583)
1860-Meters-Adjustments						-			-
1860-Meters-Closing Balance	48,889	20,814	28,075	48,889	24,397	24,492	148,889	29,980	118,909
Average				48,889	22,606	26,284	98,889	27,189	71,701
Total	101,289	22,910	78,379	101,289	28,589	72,700	201,289	36,268	165,021
General Plant									
1908-Buildings and Fixtures-Opening Balance			-	-	-	-	-	-	-
1908-Buildings and Fixtures-Additions			-			-			-
1908-Buildings and Fixtures-Depreciation			-			-			-
1908-Buildings and Fixtures-Adjustments			-			-			-
1908-Buildings and Fixtures-Closing Balance	-	-	-	-	-	-	-	-	-
Average				-	-	-	-	-	-
1910-Leasehold Improvements-Opening Balance			-	-	-	-	-	-	-
1910-Leasehold Improvements-Additions			-			-			-
1910-Leasehold Improvements-Depreciation			-			-			-
1910-Leasehold Improvements-Adjustments			-						-
1910-Leasehold Improvements-Closing Balance		-	<u>-</u>		-	-		-	-
Average					-	-		-	
Total	_	-			-	-		-	-
IT Assets									
1920-Computer Equipment - Hardware-Opening Balance 1920-Computer Equipment - Hardware-Additions	19,127	13,622	5,505	24,819	16,495	8,324	24,819	19,368	5,451

Exhibit: 2 Tab: 2 Schedule: 1 Page:6

	5,692		5,692			-			-
1920-Computer Equipment - Hardware-Depreciation		2,873	(2,873)		2,873	(2,873)		2,870	(2,870)
1920-Computer Equipment - Hardware-Adjustments			-			-			
1920-Computer Equipment - Hardware-Closing Balance	24,819	16,495	8,324	24,819	19,368	5,451	24,819	22,238	2,581
Average				24,819	17,932	6,888	24,819	20,803	4,016
1925-Computer Software-Opening Balance	13,811	3,807	10,004	23,398	8,487	14,911	65,398	17,366	48,032
1925-Computer Software-Additions	9,587		9,587	42,000		42,000			-
1925-Computer Software-Depreciation		4,680	(4,680)		8,879	(8,879)		13,079	(13,079)
1925-Computer Software-Adjustments			<u> </u>	-					<u>-</u>
1925-Computer Software-Closing Balance	23,398	8,487	14,911	65,398	17,366	48,032	65,398	30,445	34,953
Average				44,398	12,927	31,472	65,398	23,906	41,493
Total	48,217	24,982	23,235	90,217	36,734	53,483	90,217	52,683	37,534
Equipment									
1915-Office Furniture and Equipment-Opening Balance	3,246	2,856	390	3,246	2,910	336	3,246	2,964	282
1915-Office Furniture and Equipment-Additions			-			-			-
1915-Office Furniture and Equipment-Depreciation		54	(54)		54	(54)		54	(54)
1915-Office Furniture and Equipment-Adjustments			-			<u> </u>	-		-
1915-Office Furniture and Equipment-Closing Balance	3,246	2,910	336	3,246	2,964	282	3,246	3,018	228
Average				3,246	2,937	309	3,246	2,991	255
1930-Transportation Equipment-Opening Balance									
			-	-	-	-	-	-	-
1930-Transportation Equipment-Additions			-			-			-
1930-Transportation Equipment-Depreciation			-			-			-
1930-Transportation Equipment-Adjustments	-		-			-			<u>-</u>
1930-Transportation Equipment-Closing Balance		-	-		-	-	-	-	-

Exhibit: 2 Tab: 2 Schedule: 1

Page:7

Average			-	-	-	-	-	-
1935-Stores Equipment-Opening Balance		-	-	-	-	-	-	-
1935-Stores Equipment-Additions		-			-			-
1935-Stores Equipment-Depreciation		-			-			-
1935-Stores Equipment-Adjustments					<u>-</u>			<u>-</u>
1935-Stores Equipment-Closing Balance		-	_	-	-		-	-
Average			-	-	-	-	-	-
1940-Tools, Shop and Garage Equipment-Opening Balance		-	-	-	-	-	-	-
1940-Tools, Shop and Garage Equipment-Additions		-			-			-
1940-Tools, Shop and Garage Equipment-Depreciation		-			-			-
1940-Tools, Shop and Garage Equipment-Adjustments		<u>-</u>	-		-			-
1940-Tools, Shop and Garage Equipment-Closing Balance								
1940-1001s, Shop and Garage Equipment-Closing Balance		-		-			-	
Average	-	<u>-</u>	-	-	-	-	<u>-</u>	<u>-</u> -
		<u>-</u>	-	-	- -	-	-	<u>-</u> -
Average 1945-Measurement and Testing Equipment-Opening	<u> </u>	-	-	-	- - -	-	-	- -
Average 1945-Measurement and Testing Equipment-Opening Balance	<u> </u>	- - -	-	- -	- - - -	-	- -	- - -
Average 1945-Measurement and Testing Equipment-Opening Balance 1945-Measurement and Testing Equipment-Additions 1945-Measurement and Testing Equipment-Depreciation 1945-Measurement and Testing Equipment-Adjustments		- - -	-	- -	- - - -	-	- -	- - - -
Average 1945-Measurement and Testing Equipment-Opening Balance 1945-Measurement and Testing Equipment-Additions 1945-Measurement and Testing Equipment-Depreciation	<u> </u>	- - - -	- -	-	- - - - -	-	-	- - - -
Average 1945-Measurement and Testing Equipment-Opening Balance 1945-Measurement and Testing Equipment-Additions 1945-Measurement and Testing Equipment-Depreciation 1945-Measurement and Testing Equipment-Adjustments 1945-Measurement and Testing Equipment-Closing	<u>-</u> <u>-</u>	- - - -	- -	- -	- - - - -	- -	- -	- - - - -
Average 1945-Measurement and Testing Equipment-Opening Balance 1945-Measurement and Testing Equipment-Additions 1945-Measurement and Testing Equipment-Depreciation 1945-Measurement and Testing Equipment-Adjustments 1945-Measurement and Testing Equipment-Closing Balance Average	<u>-</u> -	- - - -	- -	- -	- - - - - -	- -	- -	- - - - -
Average 1945-Measurement and Testing Equipment-Opening Balance 1945-Measurement and Testing Equipment-Additions 1945-Measurement and Testing Equipment-Depreciation 1945-Measurement and Testing Equipment-Adjustments 1945-Measurement and Testing Equipment-Closing Balance Average 1950-Power Operated Equipment-Opening Balance		- - - -	-	- -	- - - - - -	- -	- -	- - - - -
Average 1945-Measurement and Testing Equipment-Opening Balance 1945-Measurement and Testing Equipment-Additions 1945-Measurement and Testing Equipment-Depreciation 1945-Measurement and Testing Equipment-Adjustments 1945-Measurement and Testing Equipment-Closing Balance Average 1950-Power Operated Equipment-Opening Balance 1950-Power Operated Equipment-Additions		- - - - -	- -	- -	- - - - - -	- -	- -	- - - - - - -
Average 1945-Measurement and Testing Equipment-Opening Balance 1945-Measurement and Testing Equipment-Additions 1945-Measurement and Testing Equipment-Depreciation 1945-Measurement and Testing Equipment-Adjustments 1945-Measurement and Testing Equipment-Closing Balance Average 1950-Power Operated Equipment-Opening Balance	<u> </u>	- - - - -	- -	- -	- - - - - - - -	- -	- -	- - - - - -

File Number: EB-2007-0704 Exhibit: 2 Tab: 2 Schedule: 1

Page:8

1950-Power Operated Equipment-Closing Balance	-	-	-	_	-	-	_	-	-
Average			_	-	-	-	-	-	-
1955-Communication Equipment-Opening Balance			-	-	-	-	-	-	-
1955-Communication Equipment-Additions			-			-			-
1955-Communication Equipment-Depreciation			-			-			-
1955-Communication Equipment-Adjustments			-			<u> </u>			<u>-</u>
1955-Communication Equipment-Closing Balance		-	-		-	-		-	-
Average				-	-	-	-	-	-
1960-Miscellaneous Equipment-Opening Balance			-	-	-	-	-	-	-
1960-Miscellaneous Equipment-Additions			-			-			-
1960-Miscellaneous Equipment-Depreciation			-			-			-
1960-Miscellaneous Equipment-Adjustments			-			-			-
1960-Miscellaneous Equipment-Closing Balance		-			-	-	-	-	-
Average				_	-	-		-	-
Total	3,246	2,910	336	3,246	2,964	282	3,246	3,018	228
Other Distribution Assets									
1825-Storage Battery Equipment-Opening Balance			-	_	-	-	-	-	-
1825-Storage Battery Equipment-Additions			-			-			-
1825-Storage Battery Equipment-Depreciation			-			-			-
1825-Storage Battery Equipment-Adjustments						-	-		-
1825-Storage Battery Equipment-Closing Balance		-			-	-		-	-
Average				-	-	-	-	-	-
1970-Load Management Controls - Customer Premises- Opening Balance			-	-	-	-	-	-	-

Exhibit: 2 Tab: 2 Schedule: 1

Page:9

1970-Load Management Controls - Customer Premises- Additions	-			-		<u>-</u>
1970-Load Management Controls - Customer Premises- Depreciation	-			-		<u>-</u>
1970-Load Management Controls - Customer Premises- Adjustments	-			-		-
1970-Load Management Controls - Customer Premises- Closing Balance			-	-		-
Average		-	-	-		-
1975-Load Management Controls - Utility Premises- Opening Balance	-	-	-	-		-
1975-Load Management Controls - Utility Premises- Additions	-			-		-
1975-Load Management Controls - Utility Premises- Depreciation	-			-		-
1975-Load Management Controls - Utility Premises- Adjustments	-	<u></u>		-		<u> </u>
1975-Load Management Controls - Utility Premises- Closing Balance			-	-		<u>-</u>
Average		-	-	-		-
1980-System Supervisory Equipment-Opening Balance	-	-	-	-		-
1980-System Supervisory Equipment-Additions	-			-		-
1980-System Supervisory Equipment-Depreciation	-			-		-
1980-System Supervisory Equipment-Adjustments	-			-	· -	<u> </u>
1980-System Supervisory Equipment-Closing Balance		<u> </u>	-	-		<u> </u>
Average		-	-	-		-
1985-Sentinel Lighting Rental Units-Opening Balance	-	-	-	-		-
1985-Sentinel Lighting Rental Units-Additions	-			-		-
1985-Sentinel Lighting Rental Units-Depreciation	-			-		-
1985-Sentinel Lighting Rental Units-Adjustments	-			-	<u> </u>	<u> </u>
1985-Sentinel Lighting Rental Units-Closing Balance		<u>-</u>	-	-		<u>-</u>
Average		-	-	-		-

Exhibit: 2 Tab: 2 Schedule: 1

chedule: 1 Page:10

1990-Other Tangible Property-Opening Balance			-	-	-	-	-	-	-
1990-Other Tangible Property-Additions			-			-			-
1990-Other Tangible Property-Depreciation			-			-			-
1990-Other Tangible Property-Adjustments						-			<u>-</u>
1990-Other Tangible Property-Closing Balance		-	-	-	-	-		-	-
Average				-	-	-	-	-	-
1995-Contributions and Grants - Credit-Opening Balance			-	(64,783)	(2,591)	(62,192)	(107,165)	(6,030)	(101,135)
1995-Contributions and Grants - Credit-Additions	(64,783)		(64,783)	(42,382)		(42,382)			-
1995-Contributions and Grants - Credit-Depreciation		(2,591)	2,591		(3,439)	3,439		(4,286)	4,286
1995-Contributions and Grants - Credit-Adjustments						<u>-</u>			<u>-</u>
1995-Contributions and Grants - Credit-Closing Balance	(64,783)	(2,591)	(62,192)	(107,165)	(6,030)	(101,135)	(107,165)	(10,316)	(96,849)
Average				(85,974)	(4,311)	(81,664)	(107,165)	(8,173)	(98,992)
Total	(64,783)	(2,591)	(62,192)	(107,165)	(6,030)	(101,135)	(107,165)	(10,316)	(96,849)
Total Opening Balance	549,388	185,224	364,164	600,750	229,125	371,625	679,548	277,961	401,587
Total Additions	51,362	-	51,362	78,798	-	78,798	140,000	-	140,000
Total Depreciation	-	43,901	(43,901)	-	48,836	(48,836)	-	56,569	(56,569)
Total Adjustments		-			-			-	-
Total Closing Balance	600,750	229,125	371,625	679,548	277,961	401,587	819,548	334,530	485,018
Average				640,149	253,543	386,606	749,548	306,246	443,303

Exhibit: 2 Tab: 2

Schedule: 2 Page: 1

Hydro 2000 INC.

GROSS ASSETS TABLE

GROSS ASSET	2006 Board Approved (\$'s)	2006 Actual (\$'s)	Variance form 2006 Board Approved	2006 Actual (\$'s)	2007 Bridge (\$'s)	Variance form 2006 Actual	2007 Bridge (\$'s)	2008 Test (\$'s)	Variance form 2007 Bridge
Land and Buildings									
1805-Land			-	-		-	-		-
1806-Land Rights			-	-		-	-		-
1808-Buildings and Fixtures			-	-		-	-		-
1905-Land			-	-		-	-		-
1906-Land Rights			-	-		-	-		-
1810-Leasehold Improvements			-	_		-			-
Sub-Total-Land and Buildings	-	-	-	-	-	-	-	-	-
TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV									
Sub-Total-TS Primary Above 50	-	-	-	-	-	-	-	-	-
DS									
1820-Distribution Station Equipment - Normally Primary below 50 kV									
Sub-Total-DS	-	-	-	-	-	-	-	-	-
Poles and Wires									
1830-Poles, Towers and Fixtures	160,743	194,996	34,253	194,996	194,996	-	194,996	194,996	-
1835-Overhead Conductors and Devices	149,656	179,684	30,028	179,684	179,684	-	179,684	219,684	40,000
1840-Underground Conduit		13,405	13,405	13,405	13,405	-	13,405	13,405	-
1845-Underground Conductors and Devices	52,075	64,201	12,126	64,201	127,182	62,981	127,182	127,182	-

Exhibit: 2 Tab: 2 Schedule: 2

Page:2

Hydro 2000 INC.

Sub-Total-Poles and Wires	362,474	452,286	89,812	452,286	515,267	62,981	515,267	555,267	40,000
Line Transformers									
1850-Line Transformers	52,828	60,495	7,667	60,495	76,694	16,199	76,694	76,694	-
Sub-Total-Line Transformers	52,828	60,495	7,667	60,495	76,694	16,199	76,694	76,694	-
Services and Meters									
1855-Services	-	52,400	52,400	52,400	52,400	-	52,400	52,400	-
1860-Meters	43,687	48,889	5,202	48,889	48,889	-	48,889	148,889	100,000
Sub-Total-Services and Meters	43,687	101,289	57,602	101,289	101,289	-	101,289	201,289	100,000
General Plant									
1908-Buildings and Fixtures			-	-		-	-		-
1910-Leasehold Improvements			-	_		_			-
Sub-Total-General Plant	-	-	-	-	-	-	-	-	-
IT Assets									
1920-Computer Equipment - Hardware	14,037	24,819	10,782	24,819	24,819	-	24,819	24,819	-
1925-Computer Software	2,612	23,398	20,786	23,398	65,398	42,000	65,398	65,398	-
Sub-Total-IT Assets	16,649	48,217	31,568	48,217	90,217	42,000	90,217	90,217	-
Equipment									
1915-Office Furniture and Equipment	3,084	3,246	162	3,246	3,246	-	3,246	3,246	-
1930-Transportation Equipment			-	-		-	-		-
1935-Stores Equipment			-	-		-	-		-
1940-Tools, Shop and Garage Equipment			-	-		-	-		-
1945-Measurement and Testing Equipment			-	-		-	-		-
1950-Power Operated Equipment			-	-		-	-		-
1955-Communication Equipment			-	-		-	-		-

Exhibit: 2 Tab: 2 Schedule: 2

Page:3

Hydro 2000 INC.

1960-Miscellaneous Equipment										
	Sub-Total-Equipment	3,084	3,246	162	3,246	3,246	-	3,246	3,246	-
Other Distribution Assets										
1825-Storage Battery Equipment				-	-		-	-		-
1970-Load Management Controls - Custom	er Premises			-	-		-	-		-
1975-Load Management Controls - Utility P	remises			-	-		-	-		-
1980-System Supervisory Equipment				-	-		-	-		-
1985-Sentinel Lighting Rental Units				-	-		-	-		-
1990-Other Tangible Property				-	-		-	-		-
1995-Contributions and Grants - Credit			(64,783)	(64,783)	(64,783)	(107,165)	(42,382)	(107,165)	(107,165)	
Sub-Total-O	ther Distribution Assets	-	(64,783)	(64,783)	(64,783)	(107,165)	(42,382)	(107,165)	(107,165)	-
GROSS ASSET TOTAL		478,722	600,750	122,028	600,750	679,548	78,798	679,548	819,548	140,000

Exhibit: 2 Tab: 2 Schedule: 3

Page:1

Hydro 2000 Inc.

MATERIALITY ANALYSIS ON GROSS ASSET

For any rate base related variance exceeding the materiality threshold of 1%, a detailed explanation is required.

Materiality calculation	
2006 Board approved gross assets	478,722
2006 Board approved accumulated depreciation	(127,354)
2006 Board approved capital assets	<u>351,368</u>
Materiality = 1% of capital assets	<u>3,514</u>

General explanation

The 2006 board approved amounts were the average of the actual amounts for the year 2003 and 2004. Variances are the results of 2004 (50%), 2005 and 2006 acquisitions.

	Valla	inces	expiai	nations			
GROSS ASSET	2006 Board Approved	2006 Actual	Variance from 2006 Board Approved	50% of 2004 Acquisitions	2005 Acquisitions	2006 Acquisitions	Total Acquisitions
	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)
		ı	1			T	ı
1830-Poles, Towers and Fixtures	160,743	194,996	34,253	3,766	22,523	7,964	34,253
2004: Replace poles and fixtures 2005: Line extension West End of Alfred 2006: Replace poles and fixtures	1	1	1	1	1	1	ı
1835-Overhead Conductors and Devices	149,656	179,684	30,028	4,027	7,408	18,593	30,028
2004: Upgrade 2005: Line extension West End of Alfred and o 2006: Upgrade	thers						
	_	13,405	13,405	_		13,405	13,405

Exhibit: 2 Tab: 2 Schedule: 3

Page:2

GROSS ASSET	2006 Board Approved	2006 Actual	Variance from 2006 Board Approved	50% of 2004 Acquisitions	2005 Acquisitions	2006 Acquisitions	Total Acquisitions
	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)
1845-Underground Conductors and Devices	52,075	64,201	12,126	-	11,133	993	12,126
2005: Subdivision Yvon Lalande and others		1					
1850-Line Transformers	52,828	60,495	7,667	1,722	2,483	3,462	7,667
2004-2006: Purchase of transformers		1				1	
1855-Services	-	52,400	52,400	-	-	52,400	52,400
2006: New services							
1860-Meters	43,687	48,889	5,202	1,152	-	4,050	5,202
2006: Replace meters							
1920-Computer Equipment - Hardware	14,037	24,819	10,782	3,583	1,507	5,692	10,782
	,	,	,	,	,	,	,
2004: Purchase 2 PCs 2006: Purchase laptop and backup system, 2	monitors	_					•
1925-Computer Software	2,612	23,398	20,786	2,614	8,586	9,586	20,786
2005: Upgrade Advance CIS 2006: Updgrade database to SQL							

Exhibit: 2 Tab: 2

Tab: 2 Schedule: 4 Page:1

Hydro 2000 Inc.

ACCUMULATED DEPRECIATION TABLE

ACCUMULATED DEPRECIATION TABLE	2006 Board Approved (\$'s)	2006 Actual (\$'s)	Variance form 2006 Board Approved	2006 Actual (\$'s)	2007 Bridge (\$'s)	Variance form 2006 Actual	2007 Bridge (\$'s)	2008 Test (\$'s)	Variance form 2007 Bridge
Land and Buildings									
1805-Land-Depreciation			-	-		-	-		-
1806-Land Rights-Depreciation			-	-		-	-		-
1808-Buildings and Fixtures-Depreciation			-	-		-	-		-
1905-Land-Depreciation			-	-		-	-		-
1906-Land Rights-Depreciation			-	-		-	-		-
1810-Leasehold Improvements-Depreciation			<u>-</u>	-			-		
Sub-Total-Land and Buildings	-	-	-	-	-	-	-	-	-
TS Primary Above 50 1815-Transformer Station Equipment - Normally Primary above 50 kV- Depreciation			<u>-</u>						
Sub-Total-TS Primary Above 50	-	-	-	-	-	-	-	-	-
DS									
1820-Distribution Station Equipment - Normally Primary below 50 kV-Depreciation			-	-		-	-		-
Sub-Total-DS	-	-	-	-	-	-	-	-	-
Poles and Wires									
1830-Poles, Towers and Fixtures-Depreciation	38,809	69,756	30,947	69,756	82,506	12,750	82,506	95,256	12,750
1835-Overhead Conductors and Devices-Depreciation	37,812	66,897	29,085	66,897	79,036	12,139	79,036	91,975	12,939
1840-Underground Conduit-Depreciation		536	536	536	1,072	536	1,072	1,608	536

Exhibit: 2 Tab: 2 Schedule: 4

Page:2

1845-Underground Conductors and Devices-Depreciation	12,041	21,180	9,139	21,180	26,209	5,029	26,209	32,497	6,288
Sub-Total-Poles and Wires	88,662	158,369	69,707	158,369	188,823	30,454	188,823	221,336	32,513
Line Transformers									
1850-Line Transformers-Depreciation	12,773	22,545	9,772	22,545	26,881	4,336	26,881	31,541	4,660
Sub-Total-Line Transformers	12,773	22,545	9,772	22,545	26,881	4,336	26,881	31,541	4,660
Services and Meters									
1855-Services-Depreciation	-	2,096	2,096	2,096	4,192	2,096	4,192	6,288	2,096
1860-Meters-Depreciation	12,100	20,814	8,714	20,814	24,397	3,583	24,397	29,980	5,583
Sub-Total-Services and Meters	12,100	22,910	10,810	22,910	28,589	5,679	28,589	36,268	7,679
General Plant									
1908-Buildings and Fixtures-Depreciation			-	_		_	_		_
1910-Leasehold Improvements-Depreciation			-	-		-	-		-
Sub-Total-General Plant	-	-	-	-	-	-	-	-	
IT Access									
IT Assets	44.077	40.405	5 440	40 405	40.000	0.070	40.000	00.000	0.070
1920-Computer Equipment - Hardware-Depreciation	11,077	16,495	5,418	16,495	19,368	2,873	19,368	22,238	2,870
1925-Computer Software-Depreciation	522	8,487	7,965	8,487	17,366	8,879	17,366	30,445	13,079
Sub-Total-IT Assets	11,599	24,982	13,383	24,982	36,734	11,752	36,734	52,683	15,949
Equipment									
1915-Office Furniture and Equipment-Depreciation	2,220	2,910	690	2,910	2,964	54	2,964	3,018	54
1930-Transportation Equipment-Depreciation			-	-		-	-		-
1935-Stores Equipment-Depreciation			-	-		-	-		-
1940-Tools, Shop and Garage Equipment-Depreciation			-	-		-	-		-
1945-Measurement and Testing Equipment-			-	-		-	-		-
1945-Measurement and Testing Equipment-Depreciation			-	-		-	-		-

Exhibit: 2 Tab: 2 Schedule: 4

Page:3

1950-Power Operated Equipment-Depreciation			-	-		-	-		-
1955-Communication Equipment-Depreciation			-			<u> </u>			-
1960-Miscellaneous Equipment-Depreciation	2,220	2,910	690	2,910	2,964	54	2,964	3,018	54
Sub-Total-Equipment									
Other Distribution Assets			-	-		-	-		-
1825-Storage Battery Equipment-Depreciation			-	-		-	-		-
1970-Load Management Controls - Customer Premises-Depreciation			-	-		-	-		-
1975-Load Management Controls - Utility Premises-Depreciation			-	-		-	-		-
1980-System Supervisory Equipment-Depreciation			-	-		-	-		-
1985-Sentinel Lighting Rental Units-Depreciation			-	-		-	-		-
1990-Other Tangible Property-Depreciation		(2,591)	(2,591)	(2,591)	(6,030)	(3,439)	(6,030)	(10,316)	(4,286)
1995-Contributions and Grants - Credit-Depreciation	-	(2,591)	(2,591)	(2,591)	(6,030)	(3,439)	(6,030)	(10,316)	(4,286)
Sub-Total-Other Distribution Assets									
ACCUMULATED DEPRICIATION TOTAL	127,354	229,125	101,771	229,125	277,961	48,836	277,961	334,530	56,569

Exhibit: 2 Tab: 2 Schedule: 5 Page: 1

Hydro 2000 Inc.

MATERIALITY ANALYSIS ON ACCUMULATED DEPRICIATION

For any rate base related variance exceeding the materiality threshold of 1%, a detailed explanation is required.

Materiality calculation								
2006 Board approved gross assets	478,722							
2006 Board approved accumulated depreciation	<u>(127,354)</u>							
2006 Board approved net capital assets	351,368_							
Materiality = 1% of net capital assets	3,51 <u>4_</u>							

General explanation

The 2006 board approved amounts were the average of the actual amounts for the year 2003 and 2004. Variances are the results of 2004 (50%), 2005 and 2006 depreciations.

Variances explanations									
GROSS ASSET	2006 Board Approved	2006 Actual	Variance from 2006 Board Approved	50% of 2004 Depreciation	2005 Depreciation	2006 Depreciation	Total Depreciation		
	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)		
1830-Poles, Towers and Fixtures-Depreciation	38,809	69,756	30,947	5,765	12,431	12,751	30,947		
Capital assets amortized over 25 years									
1835-Overhead Conductors and Devices-Dep.	37,812	66,897	29,085	5,550	11,396	12,139	29,085		
Capital assets amortized over 25 years									
1845-Underground Conductors and Devices- Dep.	12,041	21,180	9,139	1,641	3,729	3,769	9,139		
Capital assets amortized over 25 years									
1850-Line Transformers-Depreciation	12,773	22,545	9,772	1,887	3,873	4,012	9,772		
Capital assets amortized over 25 years									
1860-Meters-Depreciation	12,100	20,814	8,714	1,711	3,420	3,583	8,714		
Capital assets amortized over 25 years									
1920-Computer Equipment - Hardware-Dep.	11,077	16,495	5,418	780	1,765	2,873	5,418		
Capital assets amortized over 25 years									
1925-Computer Software-Depreciation	522	8,487	7,965	524	2,762	4,679	7,965		
Capital assets amortized over 25 years									

Amount

Exhibit: 2 Tab: 3 Schedule: 1 Page: 1

Hydro 2000 Inc.

USoA Account Expansion or Enhancement

CAPITAL BUDGET BY PROJECT

Year

2006 Actual,2007 Bridge, 2008 Test Year and 2009 Future Year

Project Description

1 To job C Dodd Tp Coll	000/1/10004111	Expandion of Emilandomonic	7 anount
P0001 New Subdivision - Val Alain 2007	1845	Expansion	62,981
P0001 New Subdivision - Val Alain 2007	1850	Expansion	16,199
P0001 New Subdivision - Val Alain 2007	1995	Expansion	(42,382)
Economic evaluation performed			
Project Description	USoA Account	Expansion or Enhancement	Amount
P0002 Smart meters implementation 2008	1860		100,000
P0002 Smart meters implementation 2009			85,000
Other future capital will be captured in variance accounts for 2009 ar		000 and after	
Expenses for MDMR and operating expenses will also be captured in	variance accounts for 20	ous and after	
Project Description	USoA Account	Expansion or Enhancement	Amount
P0003 Billing conversion 2007	1925	Expansion	42,000
Conversion of Advance Billing System to Harris Billing System include	ng modules for Smart Me	eters and E-Care	
Project Description	USoA Account	Expansion or Enhancement	Amount
Troject Description	400=	Enhancement	40,000
P0004 Overhead Upgrade 2008	1835	Emancement	
		Enhancement	40,000
P0004 Overhead Upgrade 2008			40,000
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008			40,000 Amount
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system	1835 USoA Account	Enhancement	,
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description	1835 USoA Account 1845	Enhancement Expansion or Enhancement	Amount
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008	1835 USoA Account 1845	Enhancement Expansion or Enhancement Expansion	Amount 25,000
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008	1835 USoA Account 1845	Enhancement Expansion or Enhancement Expansion	Amount 25,000
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008 P0006 Phase 3 of Lalande Subdivision 2008	1835 USoA Account 1845 1995 USoA Account	Enhancement Expansion or Enhancement Expansion Expansion	Amount 25,000 (20,000)
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008 Project Description	1835 USoA Account 1845 1995 USoA Account 1830	Enhancement Expansion or Enhancement Expansion Expansion Expansion or Enhancement	Amount 25,000 (20,000) Amount
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008 Project Description Project Description P1-2006 Phase 2 of Lalande New-Sub.&New Services 2008	1835 USoA Account 1845 1995 USoA Account 1830 1835	Enhancement Expansion or Enhancement Expansion Expansion Expansion or Enhancement Expansion	Amount 25,000 (20,000) Amount 7,964
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008 P0006 Phase 3 of Lalande Subdivision 2008 Project Description P1-2006 Phase 2 of Lalande New-Sub.&New Services 2006 P1-2006 Phase 2 of Lalande New-Sub.&New Services 2006	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845	Enhancement Expansion or Enhancement Expansion Expansion or Enhancement Expansion Expansion Expansion	Amount 25,000 (20,000) Amount 7,964 18,593
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008 P0006 Phase 3 of Lalande Subdivision 2008 Project Description P1-2006 Phase 2 of Lalande New-Sub.&New Services 2006 P1-2006 Phase 2 of Lalande New-Sub.&New Services 2006 P1-2006 Phase 2 of Lalande New-Sub.&New Services 2006	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845 1850	Enhancement Expansion or Enhancement Expansion Expansion Expansion or Enhancement Expansion Expansion Expansion Expansion Expansion	Amount 25,000 (20,000) Amount 7,964 18,593 14,398
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008 Project Description P1-2006 Phase 2 of Lalande New-Sub.&New Services 2006	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845 1850 1855	Enhancement Expansion or Enhancement Expansion Expansion or Enhancement Expansion Expansion Expansion Expansion Expansion Expansion Expansion	Amount 25,000 (20,000) Amount 7,964 18,593 14,398 3,462
P0004 Overhead Upgrade 2008 P0005 Overhead Upgrade 2008 To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision 2008 P0006 Phase 3 of Lalande Subdivision 2008 Project Description P1-2006 Phase 2 of Lalande New-Sub.&New Services 2006	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845 1850 1855 1860	Expansion or Enhancement Expansion Expansion Expansion or Enhancement Expansion Expansion Expansion Expansion Expansion Expansion Expansion Expansion	Amount 25,000 (20,000) Amount 7,964 18,593 14,398 3,462 52,400
P0004 Overhead Upgrade P0005 Overhead Upgrade To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision P0006 Phase 3 of Lalande Subdivision P1-2006 Phase 2 of Lalande New-Sub.&New Services	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845 1850 1855 1860	Expansion or Enhancement Expansion Expansion Expansion or Enhancement Expansion	Amount 25,000 (20,000) Amount 7,964 18,593 14,398 3,462 52,400 4,050
P0004 Overhead Upgrade P0005 Overhead Upgrade To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision P0006 Phase 3 of Lalande Subdivision P1-2006 Phase 2 of Lalande New-Sub.&New Services	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845 1850 1855 1860	Expansion or Enhancement Expansion Expansion Expansion or Enhancement Expansion	Amount 25,000 (20,000) Amount 7,964 18,593 14,398 3,462 52,400 4,050
P0004 Overhead Upgrade P0005 Overhead Upgrade To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision P0006 Phase 3 of Lalande Subdivision P1-2006 Phase 2 of Lalande New-Sub.&New Services	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845 1850 1855 1860 1995 USoA Account	Expansion or Enhancement Expansion Expansion Expansion or Enhancement Expansion	Amount 25,000 (20,000) Amount 7,964 18,593 14,398 3,462 52,400 4,050 (64,783)
P0004 Overhead Upgrade P0005 Overhead Upgrade To increase safety and reliability of distribution system Project Description P0006 Phase 3 of Lalande Subdivision P0006 Phase 3 of Lalande Subdivision P1-2006 Phase 2 of Lalande New-Sub.&New Services	1835 USoA Account 1845 1995 USoA Account 1830 1835 1845 1850 1855 1860 1995 USoA Account 1920	Expansion or Enhancement Expansion Expansion Expansion or Enhancement Expansion	Amount 25,000 (20,000) Amount 7,964 18,593 14,398 3,462 52,400 4,050 (64,783) Amount

Exhibit: 2 Tab: 3

Schedule: 2

Page: 1

Hydro 2000 Inc.

MATERIALITY ANALYSIS ON CAPITAL BUDGETS

For each projects over the materiality threshold of 1% of the total net fixed assets should include the following information

Project Description: P-0001 New Subdivision Val-Alain

Need: System Expansion

Scope: Transfer Overhead line to Underground, Install two dip pole, Replace Bell

Canada pole and install complete underground with transformers to

accommodate 45 new units.

Capital Costs: \$79,180

Contributed Capital: \$42,382

Start Date: April, 2007

In-Service Date: June, 2007

Project Description: P-0002 Smart meter Part-1

Need: Installation of smart meter

Scope: To meet the 2010 deadline impose by Ministry of Energy

Capital Costs: \$100,000

Start Dates: April, 2008

In-Service Date: September, 2008

Exhibit: 2 Tab: 3

Schedule: 2 Page: 2

Hydro 2000 Inc.

Project Description: P-0002 Smart meter Part-2

Need: Installation of smart meter

Scope: To meet the 2010 deadline impose by Ministry of Energy

Capital Costs: \$85,000

Start Dates: April, 2009

In-Service Date: September, 2009

Project Description: P-0003 Billing System Conversion

Need: Replace CIS Advanced System by Harris Upgraded Smart meter CIS Billing

System. Advanced System Purchased by Harris System and Advanced CIS

system is discontinued

Scope: Install new billing system perform data conversion integrated new wholesale

settlement system and EBT software. Trained all the employees.

Capital Costs: \$42,000

Start Date: September, 2007

In-Service Date: December, 2007

Project Description: P-0004 Overhead Upgrade

Need: Safety and reliability

Scope: Replace poles and upgrade

Capital Costs: \$40,000

Start Dates: April, 2008

In-Service Date: May, 2008

Exhibit: 2 Tab: 3

Schedule: 2 Page: 3

Hydro 2000 Inc.

Project Description: P-0005 Overhead Upgrade

Need: Safety and reliability

Scope: Replace poles and upgrade

Capital Costs: \$40,000

Start Dates: April, 2009

In-Service Date: May, 2009

Project Description: P-0006 Lalande Subdivision phase 3 Future(Maybe)

Need: System expansion

Scope: Finish underground Primary and secondary and loop system with phase-1

and phase-2

Capital Costs: \$25,000

Contributed Capital: \$20,000

Start Dates: April, 2009

In-Service Date: May, 2009

Project Description: P1-2006 Lalande Subdivision phase 2 and New Services

Need: System expansion

Scope: Finish underground Primary and secondary and loop system with phase-1.

Capital Costs: \$100,867

Contributed Capital: \$64,783

Start Dates: February, 2006

In-Service Date: May, 2006

Exhibit: 2 Tab: 3

Schedule: 2 Page: 4

Hydro 2000 Inc.

Project Description: P2-2006 Hardware and software upgrade CIS Advanced

Need: A laptop was purchase for training and all burden of regulatory compliance

and seminar for outside office work accommodations. Hardware was upgrade to comply with minimum system requirement for advance. Data Base was converted to SQL to better performed and rely on.

Scope: Replace required hardware and software.

Capital Costs: \$15,278

Start Dates: April, 2006

In-Service Date: September, 2006

Exhibit: 2 Tab: 3 Schedule: 3

Page: 1

Hydro 2000 Inc.

SYSTEM EXPANSIONS

2008 Test Year

No system expansion in 2008.

2007 Bridge Year

One Expansion in 2007 it's Val-Alain Subdivision. An economic evaluation was performed based on developer project and forecast and the contributed capital required by developer was \$42,382 out of a total capital expenditure of \$79,180. The developer forecast is realistic. Documents are available at Hydro 2000 Inc. office.

2006 Actual

One Expansion and in 2007 it's Lalande Phase-2 Subdivision and new services capital cost and contributions. An economic evaluation was performed based on developer project and forecast and the contributed capital required by developer and contributed capital required for all the new services was \$64,783 out of a total capital expenditure of \$100,867. The developer forecast is realistic. Documents are available at Hydro 2000 Inc. office.

Exhibit: 2 Tab: 4

Schedule: 1 Page: 1

Hydro 2000 Inc.

CAPITALIZATION POLICY

All capital assets expenses are recorded in the proper asset account which is over the materiality of 0.25% of next fixed assets. All work is performed by a contractor as single project within the same year. There is no Construction Work in Progress. There is no administration cost added except special project that may required a lot of time like smart meters where there is a project manager required.

Exhibit: 2

Tab: 3 Schedule: 4

Page: 1

Exhibit: 2

Tab: 4 Schedule: 1

Page: 1

Hydro 2000 Inc.

WORKING CAPITAL ALLOWANCE CALCULATION BY ACCOUNT

WORKING CAPITAL ALLOWANCE CALCULATION BY ACCOUNT	2006 Actual	15%	Allowance for Working Capital	2007 Bridge		15%	Allowance for Working Capital	2008 Tes	st	15%	Allowance for Working Capital
Operation (Working Capital)											
5005-Operation Supervision and Engineering		15%	-		-	15%	-		-	15%	-
5010-Load Dispatching		15%	-		-	15%	-		-	15%	-
5012-Station Buildings and Fixtures Expense		15%	-		-	15%	-		-	15%	-
5014-Transformer Station Equipment - Operation Labour		15%	-		-	15%	-		-	15%	-
5015-Transformer Station Equipment - Operation Supplies and Expenses		15%	-		-	15%	-		-	15%	-
5016-Distribution Station Equipment - Operation Labour		15%	-		-	15%	-		-	15%	-
5017-Distribution Station Equipment - Operation Supplies and Expenses		15%	-		-	15%	-		-	15%	-
5020-Overhead Distribution Lines and Feeders - Operation Labour		15%	-		-	15%	-		-	15%	-
5025-Overhead Distribution Lines & Feeders - Operation Supplies and Expenses		15%	-		-	15%	-		-	15%	-
5030-Overhead Sub transmission Feeders - Operation		15%	-		-	15%	-		-	15%	-
5035-Overhead Distribution Transformers- Operation		15%	-	463.00		15%	69.45	463.00		15%	69.45
5040-Underground Distribution Lines and Feeders - Operation Labour 5045-Underground Distribution Lines & Feeders - Operation Supplies &		15%	-		-	15%	-		-	15%	-
Expenses		15%	-		-	15%	-		-	15%	-
5050-Underground Sub transmission Feeders - Operation		15%	-		-	15%	-		-	15%	-
5055-Underground Distribution Transformers - Operation		15%	-		-	15%	-		-	15%	-
5060-Street Lighting and Signal System Expense		15%	-		-	15%	-		-	15%	-
5065-Meter Expense	275.00	15%	41.25	275.00		15%	41.25	275.00		15%	41.25
5070-Customer Premises - Operation Labour		15%	-		-	15%	-		-	15%	-
5075-Customer Premises - Materials and Expenses 5085-Miscellaneous Distribution Expense		15% 15%	-		-	15% 15%	-		-	15% 15%	-

Exhibit: 2 Tab: 4

Schedule: 1 Page: 2

				-				-				-
5090-Underground Distribution Lines and Feeders - Rental Paid			15%	-		-	15%	-		- 1	5%	-
5095-Overhead Distribution Lines and Feeders - Rental Paid			15%	-		-	15%	-		- 1	5%	-
5096-Other Rent			15%	-	<u> </u>		15%	-		<u> </u>	5%	-
	Sub-Total	275.00		41.25	738.00			110.70	738.00			110.70
Maintenance (Working Capital)												
5105-Maintenance Supervision and Engineering			15%	-		-	15%	-		- 1	5%	-
5110-Maintenance of Buildings and Fixtures - Distribution Stations			15%	-		-	15%	-		- 1	5%	-
5112-Maintenance of Transformer Station Equipment			15%	-		-	15%	-		- 1	5%	-
5114-Maintenance of Distribution Station Equipment			15%	-		-	15%	-		- 1	5%	-
5120-Maintenance of Poles, Towers and Fixtures			15%	-		-	15%	-		- 1	5%	-
5125-Maintenance of Overhead Conductors and Devices		2,064.40	15%	309.66	2,064.40		15%	309.66	2,064.40	1	5%	309.66
5130-Maintenance of Overhead Services			15%	-		-	15%	-		- 1	5%	-
5135-Overhead Distribution Lines and Feeders - Right of Way			15%	-		-	15%	-		- 1	5%	-
5145-Maintenance of Underground Conduit			15%	-		-	15%	-		- 1	5%	-
5150-Maintenance of Underground Conductors and Devices			15%	-		-	15%	-		- 1	5%	-
5155-Maintenance of Underground Services			15%	-		-	15%	-		- 1	5%	-
5160-Maintenance of Line Transformers			15%	-		-	15%	-		- 1	5%	-
5165-Maintenance of Street Lighting and Signal Systems			15%	-		-	15%	-		- 1	5%	-
5170-Sentinel Lights - Labour			15%	-		-	15%	-		- 1	5%	-
5172-Sentinel Lights - Materials and Expenses			15%	-		-	15%	-		- 1	5%	-
5175-Maintenance of Meters		1,652.91	15%	247.94	1,652.91		15%	247.94	1,652.91	1	5%	247.94
5178-Customer Installations Expenses- Leased Property			15%	-		-	15%	-		- 1	5%	-
5185-Water Heater Rentals - Labour			15%	-		-	15%	-		- 1	5%	-
5186-Water Heater Rentals - Materials and Expenses			15%	-		-	15%	-		- 1	5%	-
5190-Water Heater Controls - Labour 5192-Water Heater Controls - Materials and Expenses			15% 15%	-		-	15% 15%	-			5% 5%	-

Exhibit: 2 Tab: 4 Schedule: 1

Page: 3

				-			-			-
5195-Maintenance of Other Installations on Customer Premises			15%	-		15%			15%	<u>-</u>
	Sub-Total	3,717.31		557.60	3,717.31		557.60	3,717.31		557.60
Billing and Collections										
5305-Supervision			15%	-	-	15%	-	-	15%	-
5310-Meter Reading Expense			15%	-	-	15%	-	-	15%	-
5315-Customer Billing		76,967.74	15%	11,545.16	78,507.09	15%	11,776.06	80,077.24	15%	12,011.59
5320-Collecting			15%	-	-	15%	-	-	15%	-
5325-Collecting- Cash Over and Short			15%	-	-	15%	-	-	15%	-
5330-Collection Charges		93.52	15%	14.03	93.52	15%	14.03	120.52	15%	18.08
5335-Bad Debt Expense		3,656.64	15%	548.50	7,313.28	15%	1,096.99	7,459.55	15%	1,118.93
5340-Miscellaneous Customer Accounts Expenses			15%			15%			15%	-
	Sub-Total	80,717.90		12,107.69	85,913.89		12,887.08	87,657.31		13,148.60
Community Relations										
5405-Supervision			15%	-	-	15%	-	-	15%	-
5410-Community Relations - Sundry			15%	-	-	15%	-	-	15%	-
5415-Energy Conservation			15%	-	-	15%	-	-	15%	-
5420-Community Safety Program			15%	-	-	15%	-	-	15%	-
5425-Miscellaneous Customer Service and Informational Expenses			15%	-	-	15%	-	-	15%	-
5505-Supervision			15%	-	-	15%	-	-	15%	-
5510-Demonstrating and Selling Expense			15%	-	-	15%	-	-	15%	-
5515-Advertising Expense			15%	-	-	15%	-	-	15%	-
5520-Miscellaneous Sales Expense			15%	-		15%			15%	-
	Sub-Total	-		-	-		-	-		-
Administrative and General Expenses										
5605-Executive Salaries and Expenses			15%			15%			15%	

Exhibit: 2

Tab: 4 Schedule: 1

Page: 4

	8,870.86	1,330.63	8,870.86	1,330.63	8,870.86	1,330.63
5610-Management Salaries and Expenses	57,751.66	15% 8,662.75	60,061.73	6 9,009.26	61,262.96	15% 9,189.44
5615-General Administrative Salaries and Expenses		15% -	- 159	6 -	-	15% -
5620-Office Supplies and Expenses	9,012.83	15% 1,351.92	9,012.83 159	6 1,351.92	9,012.83	15% 1,351.92
5625-Administrative Expense Transferred Credit		15% -	- 159	6 -	-	15% -
5630-Outside Services Employed	28,733.48	15% 4,310.02	28,733.48 159	6 4,310.02	28,733.48	15% 4,310.02
5635-Property Insurance	3,409.56	15% 511.43	3,409.56 159	6 511.43	3,409.56	15% 511.43
5640-Injuries and Damages		15% -	- 159	% -	-	15% -
5645-Employee Pensions and Benefits	7,766.29	15% 1,164.94	7,999.28 159	6 1,199.89	8,159.26	15% 1,223.89
5650-Franchise Requirements		15% -	- 159	% -	-	15% -
5655-Regulatory Expenses	6,570.62	15% 985.59	6,570.62 159	6 985.59	66,500.00	15% 9,975.00
5660-General Advertising Expenses		15% -	- 159	% -	-	15% -
5665-Miscellaneous General Expenses		15% -	- 159	6 -	-	15% -
5670-Rent	7,873.08	15% 1,180.96	7,873.08 159	6 1,180.96	7,873.08	15% 1,180.96
5675-Maintenance of General Plant		15% -	- 159	6 -	-	15% -
5680-Electrical Safety Authority Fees	3,808.88	15% 571.33	3,808.88 159	6 571.33	3,808.88	15% 571.33
5685-Independent Market Operator Fees and Penalties		15%		6 <u>-</u>	<u> </u>	15%
Sub	- Total 133,797.26	20,069.57	136,340.32	20,451.03	197,630.91	29,644.62
Amortization Expenses						
5705-Amortization Expense - Property, Plant, and Equipment	43,900.88	0% -	48,836.00 0%	, -	56,569.00	0% -
5710-Amortization of Limited Term Electric Plant		15% -	- 159	6 -	-	15% -
5715-Amortization of Intangibles and Other Electric Plant	463.00	0% -	- 0%	· -	-	0% -
5720-Amortization of Electric Plant Acquisition Adjustments		15% -	- 159	% -	-	15% -
5725-Miscellaneous Amortization		15% -	- 159	% -	-	15% -
5730-Amortization of Unrecovered Plant and Regulatory Study Costs		15% -	- 159	% -	-	15% -
5735-Amortization of Deferred Development Costs		15% -	- 159	6 -	-	15% -

Exhibit: 2 Tab: 4 Schedule: 1

Page: 5

5740-Amortization of Deferred Charges			15%	-		15%	_		15%	_
	Sub-Total	44,363.88		-	48,836.00		-	56,569.00		-
Cost of Power										
4705-Power Purchased		1,499,578.22	15%	224,936.73	1,499,578.22	15%	224,936.73	1,601,226.00	15%	240,183.90
4708-Charges-WMS		160,329.25	15%	24,049.39	160,329.25	15%	24,049.39	160,329.25	15%	24,049.39
4710-Cost of Power Adjustments			15%	-	-	15%	-	-	15%	-
4712-Charges-One-Time			15%	-	-	15%	-	-	15%	-
4714-Charges-NW		142,156.56	15%	21,323.48	142,156.56	15%	21,323.48	142,156.56	15%	21,323.48
4716-Charges-CN		123,624.38	15%	18,543.66	123,624.38	15%	18,543.66	123,624.38	15%	18,543.66
4730-Rural Rate Assistance Expense			15%	-	-	15%	-	-	15%	-
4750-LV Charges Costs		56,564.98	15%	8,484.75	56,564.98	15%	8,484.75	56,564.98	15%	8,484.75
5685-Independent Market Operator Fees and Penalties			15%			15%			15%	-
	Sub-Total	1,982,253.39		297,338.01	1,982,253.39		297,338.01	2,083,901.17		312,585.18
WORKING CAPITAL ALLOWA	NCE TOTAL			330,114.12			331,344.42			356,046.70

Exhibit: 2 Tab: 4 Schedule: 1 Page: 6

Exhibit: 3

Tab: 1 Schedule: 1

Page: 1

<u>Ex</u> .	<u>Tab</u>	Sched	<u>dule</u>	Contents of Schedule
<u>3 - Op</u>	<u>erating</u>	Rever	<u>nue</u>	
		1	1	Overview of Operation Revenue
			2	Summary of Operating Revenue Table
			3	Variance Analysis on Operating Revenue
		2		Throughput Revenue
			1	Weather Normalized Forecasting Methodology
			2	Normalized Volume Forecast Table
			3	Variance Analysis on Normalized Volume Forecast
			4	Customer Count Forecast Table
			5	Variance Analysis on Customer Count Forecast
			6	Historical Average Consumption
		3		Other Revenue
			1	Other Distribution Revenue
			2	Materiality Analysis on Distribution Revenue
			3	Rate of Return on Other Distribution Revenue
			4	Distribution Revenue Data
		4		Revenue Sharing
			1	Description of Revenue Sharing

Exhibit: 3

Tab: 1 Schedule: 1

Page: 1

Hydro 2000 Inc.

OVERVIEW OF OPERATING REVENUE

This exhibit provides the details on the Applicant's operating revenue for Historical, Historical Board Approved, Bridge and Test years. This exhibit also provides a detailed variance analysis by rate class of the operating revenue components.

Distribution revenues have been calculated using the most recently approved rates. In particular, delivery rates are based on the RP-2005-0020 and EB-2005-0380 Rate Order, dated May 1st, 2007. Distribution revenue included the Fixed Charge, Variable Charge and Low Voltage Charges. The distribution revenues Fixed and Variable Charges plus Other Revenues should recover all the expenses, PILS and profit allowed. A summary of normalized operating revenues is presented in Exhibit 3, Tab 3, Schedule 4.

Throughput Revenue

Information related to the utility's throughput revenue include details such as weather normalized forecasting methodology, normalized volume and customer counts forecast tables. Detailed variance analysis on the forecast information is also provided.

Other Revenue

Other revenues include revenues such as Late Payment Charges, Miscellaneous Service Revenues and Retail Services Revenues. A summary of these operating revenues is presented in Exhibit 3, Tab 1, Schedule 2.

Exhibit: 3 Tab: 1

Schedule: 2

Page: 1

Hydro 2000 Inc.

SUMMARY OF OPERATING REVENUE TABLE

SUMMARY OF OPERATING REVENUE TABLE	2006 Board Approved	2006 Actual	Variance form 2006 Board Approved	2006 Actual	2007 Actual	Variance form 2006 Actual	2007 Bridge	2008 Test	Variance form 2007 Actual
	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)
<u>Distribution Revenues</u>									
Residential	223,233	200,714	-22,519	200,714	206,376	5,662	206,376	261,615	56,849
G.S. < 50	73,603	62,370	-11,233	62,370	62,916	546	62,916	97,150	34,839
G.S. > 50	39,042	24,091	-14,951	24,091	25,297	1,206	25,297	41,682	16,645
Unmetered	357	3,199	2,842	3,199	3,228	29	3,228	1,017	-2,205
Streetlight	2,587	11,052	8,465	11,052	11,332	280	11,332	8,499	-2,780
Other Distribution Revenue									
Late Payment Charges	4,039	4,403	364	4,403	4,403	-	4,403	4,403	-
Specific Service Charges	2,741	1,359	-1,382	1,359	1,359	-	1,359	1,359	
Other Distribution Revenue	38,735	46,246	7,511	46,246	26,910	-19,336	26,910	26,910	-
Total	384,337	353,434	-30,903	353,434	341,821	11,613	341,821	442,635	103,348

Exhibit: 3

Tab: 1 Schedule: 3

Page: 1

Hydro 2000 Inc.

VARIANCE ANALYSIS ON OPERATING REVENUE

The Applicant's distribution revenue has been calculated using the most recently approved rates. In particular, delivery rates are based on the RP-2005-0020 and EB-2005-0380 Rate Order, dated May 1st 2007. Distribution revenue does not include commodity related revenue.

A summary of normalized operating revenues is presented in Exhibit 3, Tab 1, Schedule 2, which is a summary of the information provided in Tab 3, Schedule 1 of Exhibits 3 and in Tab 3, Schedule 4, of Exhibit 3.

2008 Test Year

Hydro 2000 Inc operating revenue is forecast to be \$442,635 in Fiscal 2008, as shown in Exhibit 3, Tab 1, Schedule 2. Distribution revenue totals \$406,655 or 91.87% of total revenues. Other operating revenue (net) accounts for the remaining revenue of \$35,980.

.

Comparison to 2007 Bridge Year

As shown in Exhibit 3, Tab 1, Schedule 2, the total operating revenue is expected to be \$100,814 above the bridge year level in fiscal 2007. This increase is the result of PILS that we did not pay up to this point because of a lost carry forwards (\$ 39,350), LV Charges under estimated by Hydro One Networks Inc. (\$15,000), wages Increased to employees (\$5,000) and capital project expenses in 2007 and 2008.

2007 Bridge Year

Hydro 2000 Inc operating revenue is forecast to be \$341,821 in Fiscal 2007, as shown in Exhibit 3, Tab 1, Schedule 2. Distribution revenue totals \$305,841 or 89.47% of total revenues. Other operating revenue (net) accounts for the remaining revenue of \$35,980.

Comparison to Fiscal 2006 Actual

As shown in Exhibit 3, Tab 1, Schedule 2, the total operating revenue is expected to be \$11,613 below the 2006 Actual year level in fiscal 2007. This decrease is mostly the result delayed expenditure of capital assets in 2002 to 2006 because of challenges of opening market.

Exhibit: 3

Tab: 1 Schedule: 3 Page: 2

Hydro 2000 Inc.

2006 Actual

Hydro 2000 Inc. operating revenue was \$353,434 in Fiscal 2007, as shown in Exhibit 3, Tab 1, Schedule 2. Distribution revenue total \$301,426 or 85.28% of total revenues. Other operating revenue (net) accounts for the remaining revenue of \$52,008.

Comparison to 2006 Board Approved

As shown in Exhibit 3, Tab 1, Schedule 2, the total operating revenue is to be \$30,903 below the 2006 Board Approved year level in fiscal 2006. This decrease is mostly the result of distribution revenues short fall of \$37,396. Total sales were down because of milder temperature in winter and summer.

2006 Board Approved

Hydro 2000 Inc. operating revenue of \$384,337 was anticipated in 2006 Board Approved Model, as shown in Exhibit 3, Tab 1, Schedule 2. Distribution revenue total \$338,822 or 88.15% of total revenues. Other operating revenue (net) accounts for the remaining revenue of \$45,515.

Exhibit: 3

Tab: 2 Schedule: 1 Page: 1

Hydro 2000 Inc.

WEATHER NORMALIZED FORECASTING METHODOLOGY

This exhibit discusses the methodology used to determine The Applicant's customer and load forecast. A projection for the number of customers in each customer class is provided for both the Bridge Year (2007) and the Test Year (2008). Historical data for the annual number of customers in each rate class is available for 2002 through to 2006. Due to significant restructuring, accurate customer data prior to 2002 is not currently available. As a result of the limited amount of data available, time series techniques that are often used to help estimate forecast values cannot be used. Rather, the Applicant has used a simple trend growth in customer connections, by class, to forecast Bridge and Test Year customer numbers. Given the slow growth and consistent trend in customer numbers in The Applicant's service territory over the past five years, the resulting customer forecast is likely not materially different than what would result from using more sophisticated time series techniques. In recent history, there has been very little year-to-year variation in customer growth by class. Historical and forecast customer numbers, by class, are displayed in the next section.

As required by the OEB Filing Requirements for Transmission and Distribution Applications, we are providing normalized historical and forecast (Bridge Year and Test Year) throughput data. Weather normalization (where required) is based on normalized average use per customer ("NAC") calculated from the weather-normalized throughput of the utility from 2004. This weather-normalized throughput was generated by Hydro One using their weather normalization model for the Cost Allocation process previously undertaken by the Board. The process to obtain these weather normal data was an intensive effort for all parties involved, and we are leveraging the value of this work by using it for this process.

Exhibit: 3 Tab: 2

Schedule: 1 Page: 2

Hydro 2000 Inc.

Customer Forecast

Table 1 below presents historical and forecast customer numbers, by class, for The Applicant.

	Table 1 – Customers by Class, The Applicant Utilities										
	2002	2003	2004	2005	2006	2007	2008				
Residential											
	955	955	969	974	979	997	1,005				
Per cent chg	1.60%	0.00%	1.47%	0.52%	0.51%	1.84%	0.80%				
GS < 50kW											
	147	150	147	144	147	147	147				
Per cent chg			1				-				
	(0.01)%	0.02%	0.02%	(0.02)	0.02	-					
GS (>50 to 5000)											
	11	11	12	12	12	12	12				
Per cent chg	0%	0%	0%	0%	0%	0%					
							0%				
USL	6	6	6	6	6	6	6				
Per cent chg	0%	0%	0%	0%	0%	0%	0%				
Street Lighting	347	351	351	362	362	368	368				
Per cent chg	0.02%	0.01%	0.0%	0.03%	0.0%	0.02%	0.0%				

Annual percentage change is presented for Residential, GS<50, and GS 50-5000 classes. For Residential and GS<50 customer classes, the blue highlighted percentage change for 2007 represents the annual average geometric mean growth rate for 2002 to 2006. The annual trend growth rate is used to project customer growth into 2007 and 2008. For the GS>50 to 5000 customer class, an annual growth rate of 0% was assumed for 2007 and 2008. From the table above, it can be seen that 2004-05 were anomalous years for growth (0% in 2003 followed by 0% in 2004). This anomalous growth was excluded from the trend line.

The large use class contains only 12 customers (11 in 2002 falling to 12 in 2007). The 2007 customer number is the current actual number of customers in this class. The Applicant does not expect the number of customers in this class to change within the next year to 18 months, and has used this for the number of customers expected at Bridge Year end and Test Year.

Exhibit: 3

Tab: 2 Schedule: 1

Page: 3

Hydro 2000 Inc.

Customer numbers for Street Lighting, and USL classes in 2007 also represent current (early 2007) number of connections in each of these classes. The Applicant does not expect the number of customers in the USL class to change within the next year) and the 2007 current figures are used for 2008. Customer growth for the Street Lighting Class is calculated based on the annual average geometric mean of growth from 2002 to current year (2007)

The figures below illustrate the historical and forecast customer trend in Residential, GS<50, and GS>50 to 5000classes.

Actual and Forecast Customers

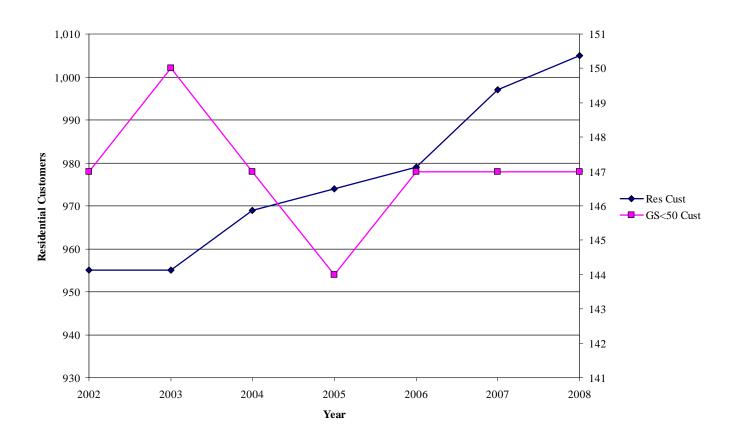
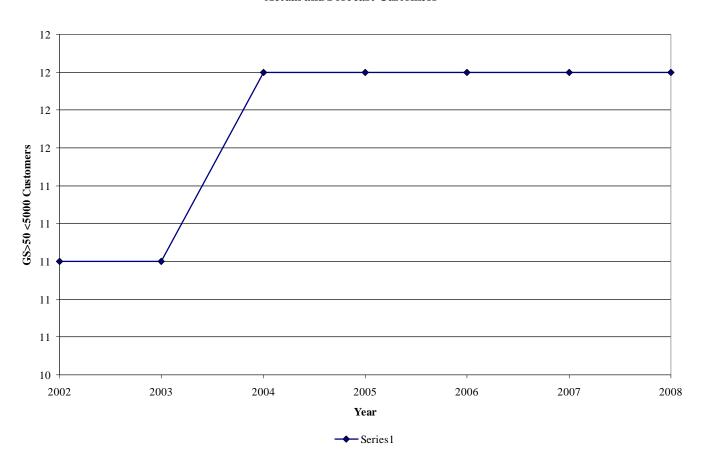


Exhibit: 3

Tab: 2 Schedule: 1 Page: 4

Hydro 2000 Inc.

Actual and Forecast Customers



Load Forecast

Weather sensitive load (Residential, GS<50, and GS>50 classes) is calculated by using a retail normalized average use per customer ("retail NAC"). This is calculated by dividing the class weather normal retail kWh for 2004 by the number of customers in class in 2004. Class weather normal retail kWh for 2004 is determined by dividing the class weather normal wholesale kWh for 2004 reported in the Hydro One weather normalization analysis by the class loss factor. The class loss factor is calculated for 2004 by dividing the class weather actual wholesale consumption for 2004 (Hydro One file) by the class weather actual retail consumption (utility data). Weather sensitive class weather actual wholesale and retail kWh and associated loss factors are reported in the following table below.

Exhibit: 3

Tab: 2 Schedule: 1

Page: 5

Exhibit: 3 Tab: 2

Schedule: 1 Page: 6

Hydro 2000 Inc.

2004 Weather Actual kWh and Loss Factors for Weather Sensitive Load The Applicant Utilities									
Class Weather Actual Weather Actual Retail Loss Factor Wholesale kWh kWh									
Residential	16,239,145	15,223,723	1.0667						
GS < 50	GS < 50 5,585,359 5,236,111 1.0667								
GS >50 to 5,000	5,347,264	5,012,904	1.0667						

Weather sensitive class wholesale weather normal kWh, number of customers, and retail NAC for 2004 is reported in the table below.

Class	Weather Normalize	Customer	Retail NAC
	kWh (2004)	Connections (2004)	
Residential	16,086,959	979	16,432
GS < 50	5,682,016	147	38,653
GS >50 to 5,000	5,496,281	12	458,023

Annual class kWh for weather sensitive load (Residential, GS<50, GS>50) for Bridge Year and Test Year are calculated by multiplying retail NAC by forecast number of customers in class. Class kWh for the Large User ("LU") class, Unmetered Scattered Load ("USL"), and Sentinel Lighting is not weather sensitive and is not expected to differ in 2008 from current 2007 levels. Utility budgeted throughput for these classes based on year-to-date consumption is used to estimate Bridge Year and Test Year values for these classes. Consumption for Street Lighting is not weather sensitive. Street Lighting kWh is estimated using forecast number of connections for the Bridge Year and Test Year multiplied the average use per connection, which is calculated to be approximately 767 kWh per annum.

Several classes are billed based on demand charges (GS>50, LU, Sentinel, Street Lighting) and require an estimate of billed kW. Billed kW is estimated based on a load factor calculated using a ratio of historical billed kW to historical retail kWh, by class. The following table summarizes the results of The Applicant's customer and load forecast.

Exhibit: 3 Tab: 2

Schedule: 1 Page: 7

The Applicant Utilities Corporation		Historical Actual	Historical Board Approved	Historical Actual Normalized	Bridge Year -Est.	Bridge Year Forecast Normalized	Test Year Normalized Forecast
Year		2006	2004	2006	2007	2007	2008
Customer Class	#	979	969	969	997	997	1005
Residential	kWh	15,223,723	15,567,706	16,086,959	15,503,628	16,382,735	16,514,191
GS < 50 kW	#	147	147	147	147	147	147
	kWh	5,236,111	5,504,335	5,682,016	5,236,111	5,682,016	5,682,016
GS >50 to 5000	#	12	11	12	12	12	12
	kWh	5,012,904	5,258,719	5,496,281	5,012,904	5,496,281	5,496,281
	kW	11,583	12,536	12,700	12112	13280	13280
USL	#	6	3	6	6	6	6
	kWh	19,951	12,536	19,951	19951	19951	19951
Street Lighting	#	362	351	362	368	368	368
	kWh	351,709	325,313	351,709	359,553	359,553	359,553
	kW	925	855	925	941	941	941

Exhibit: 3

Tab: 2

Schedule: 2

Page: 1

Hydro 2000 Inc.

NORMALIZED VOLUME FORECAST TABLE

NORMALIZED VOLUME FORECAST						
	2006 Board Approved	2006 Board Approved	2006 Actual	2006 Actual	Variance from 2006 Board Approved	Variance from 2006 Board Approved
	(kWh)	(kW)	(kWh)	(kW)	(kWh)	(kW)
Rate Classes						
Residential	15,567,706		15,223,723		(343,983)	-
G.S. < 50	5,504,335		5,236,111		(268,224)	-
G.S. > 50	5,258,719	13,164	5,012,904	11,583	(245,815)	(1,581)
Unmetered	12,536	·	19,951		7,415	-
Streetlight	325,313	855	351,709	925	26,396	70
Total	26,668,609	14,019	25,844,398	12,508	(824,211)	(1,511)

NORMALIZED VOLUME FORECAST						
	2006 Actual	2006 Actual	2007 Bridge	2007 Bridge	Variance from 2006 Actual	Variance from 2006 Actual
	(kWh)	(kW)	(kWh)	(kW)	(kWh)	(kW)
Rate Classes						
Residential	15,223,723	-	16,382,735		1,159,012	-
G.S. < 50	5,236,111	-	5,682,016		445,905	-
G.S. > 50	5,012,904	11,583	5,496,281	13,280	483,377	1,697
Unmetered	19,951	-	19,951		-	-
Streetlight	351,709	925	359,553	941	7,844	16
Total	25,844,398	12,508	27,940,536	14,221	2,096,138	1,713

Exhibit: 3

Tab: 2 Schedule: 2 Page: 2

	2007 Bridge	2007 Bridge	2008 Test	2008 Test	Variance from 2007 Bridge	Variance from 2007 Bridge
	(kWh)	(kW)	(kWh)	(kW)	(kWh)	(kW)
Rate Classes	16,382,735	-	16,514,191		131,456	-
Residential	5,682,016	-	5,682,016		-	-
G.S. < 50	5,496,281	13,280	5,496,281	13,280	-	-
G.S. > 50	19,951	-	19,951		-	-
Unmetered	359,553	941	359,553	941	-	-
Streetlight	-	-				
Total	27,940,536	14,221	28,071,992	14,221	131,456	_

Exhibit: 3 Tab: 2

Schedule: 3 Page: 1

Hydro 2000 Inc.

VARIANCE ANALYSIS ON NORMALIZED VOLUME FORECAST

The purpose of the evidence contained in Tab 2, of Exhibits 3, is to provide the Board with a review of Hydro 2000 Inc. actual and forecasted customers, consumption and revenues for the historical, bridge and test years. Test year revenues have been calculated using the approved RP-2005-0020 and EB-2005-0380 Rate Order May 1st, 2007.

Exhibit3, Tab 2, Schedule 1, provides a summary of the normalized throughput and customer numbers from the schedules noted above.

Fiscal 2008 Test Year

The weather normalized numbers generated by the 30 year load forecast are way above the average of the 8 years of Hydro 2000 Inc. average consumption. With the price of electricity increasing all new customers since 2006 went to another source of heating than electrical with is dropping the average. With global warming winter are warming up which make hydro 2000 Inc. sales drop because of its nature of being a winter peaking utility caused by the electrical heating. CDM programs and better house construction and removal of old houses are contributing too, to the reduction of sales of Hydro 2000 Inc.

The forecast for 2008 test year normalized volume is 28,071,992 kWhs

The following tables give you a comparison between actual and forecast in the last 9 years.

Year	Volume 8 yr forecast Hydro 2000	30 Yr Ioad forecast HONI	Forecast
1999	23,504,170		Actual
2000	25,830,657		Actual
2001	24,876,233		Actual
2002	25,646,934		Actual
2003	26,571,085		Actual
2004	27,530,422		Actual
2005	26,270,837		Actual
2006	25,844,398		Actual
2007	26,535,009	27,940,536	Forecast
2008	26,741,396	28,071,992	Forecast

If we compared the volume from 2002 to 2007 except for 2004 which was a special cold winter and hot summer the median is around 26,000,000 kwhs.

Exhibit: 3 Tab: 2

Schedule: 3 Page: 2

Hydro 2000 Inc.

2007 Bridge Year

The forecast for 2007 Bridge year normalized volume is 27,940,536 kWhs. The actual consumption for 2007 bridge year for January 1st to August 31, 2007 as and increase of 580,000 kWhs on the consumption and if the remaining year stay the same than the total Actual consumption should approximately 26,424,398 kwhs. The comparison of the actual with approximation is closer to the prediction of Hydro 2000 Inc. forecast than the 30 year load forecast of Hydro One Networks.

2006 Actual

The actual 2006 volume was 25,844,898 kWhs compared to a Board Approved 26,668,609 kWhs projected by 2006 Board Approved Model a 3% decrease in volume of consumption.

2006 Board Approved

The 2006 Board Approved volume was 26,668,609 based on the average of 2002, 2003 and 2004.

Hydro 2000 Inc. will compile statistic and compare its 8 years forecast to actual data for Bridge, Test and Future years. If the data are closer to 8 years forecast in the next rebasing Hydro 2000 Inc. will submit its application based on its on forecast. Evidence will show that the 30 years model is not the best solution for a small utility with winter peaking In an environment that global warming is affecting winter and that CDM contribute to save on the volume of consumption.

Exhibit: 3

Tab: 2 Schedule: 4

Page: 1

Hydro 2000 Inc.

CUSTOMER COUNT FORECAST TABLE

CUSTOMER COUNT FORECAST TABLE	2006 Board Approved	2006 Actual	Variance form 2006 Board Approved	2006 Actual	2007 Bridge	Variance form 2006 Actual	2007 Bridge	2008 Test	Variance form 2007 Actual
Residential	969	979	10	979	997	18	997	1005	8
G.S. < 50	147	147	0	147	147	0	147	147	0
G.S. > 50	11	12	1	12	12	0	12	12	0
Unmetered	3	6	3	6	6	0	6	6	0
Streetlight	351	362	11	362	368	6	368	368	0
_									
Total	1481	1506	25	1506	1530	24	1530	1538	8

Exhibit: 3 Tab: 2

Schedule: 5

Page: 1

Hydro 2000 Inc

VARIANCE ANALYSIS ON CUSTOMER COUNT FORECAST

The purpose of the evidence contained in Tab 2, of Exhibits 3, is to provide the Board with a review of Hydro 2000 Inc. actual and forecasted customers, consumption and revenues for the historical, bridge and test years. Test year revenues have been calculated using the approved RP-2005-0020 and EB-2005-0380 Rate Order May 1st, 2007.

Exhibit 3, Tab 2, Schedule 4, provides a summary of the normalized throughput and customer numbers from the schedules noted above.

Hydro 2000 Inc. is a very small utility with a very minimal growth. Hydro 2000 Inc. manager is also a municipal councilor for the last 16 years. He knows very well the area and all future projects incoming in the municipality and in Hydro 2000 Inc. service area. Hydro 2000 Inc. employee knows almost all its customers on a family basis.

Fiscal 2008 Test Year

Hydro 2000 Inc. total customers forecast maybe at most 8 new residential customers.

2007 Bridge Year

Hydro 2000 Inc. actual customers for 2007 bridge year is 17 new residential and 6 new street-light connection and does not anticipate any more construction. The comparison between forecast and the actual is a differential of 1 customer in the residentia1.

2006 Actual

Hydro 2000 Inc. 2006 Actual customer count was 1506 customers and connections. The year 2006 was very special with a small boom in construction. 10 new Residential units was built with 11 new street-light connection, 3 Unmetered Scattered Load customers accounts was transferred into 6 accounts, one new customer in General Service less 50 kW and one customer transferred from GS less than 50kW to the Over 50kW.

2006 Board Approved

The total customer count for 2006 Board Approved was 1481 customers and connection.

Exhibit: 3 Tab: 2

Schedule: 6 Page: 1

Hydro 2000 Inc

HISTORICAL AVERAGE CONSUMPTION

	HISTORICAL AVERAGE CONSUMPTION								
Residential				T					
<u>Year</u>	Weather Actual	Weather Normalized	Difference	Actual % Diff					
2002	14,810,717								
2003	15,460,530								
2004	15,988,104	15,334,552	(653,552)	-4.09%					
2005	14,960,326								
2006	15,223,723	16,086,959	863,236	5.67%					
2007	15,463,945	16,382,735	918,790	5.94%					
2008	15,667,418	16,514,191	846,773	5.40%					

	HISTORICAL AVERAGE CONSUMPTION								
G.S. < 50		T		T					
Year	Weather Actual	Weather Normalized	Difference	Actual % Diff					
2002	5,536,583	- Vodunor Hormanzoa	Billorence	7totaar 70 Biii					
2003	5,405,561								
2004	5,678,973	5,443,481	(235,492)	-4.15%					
2005	5,503,436								
2006	5,236,111	5,682,016	445,905	8.52%					
2007	5,269,938	5,682,016	412,078	7.82%					
2008	5,269,938	5,682,016	412,078	7.82%					

HISTORICAL AVERAGE CONSUMPTION								
<u>G.S. > 50</u>								
<u>Year</u>	Weather Actual	Weather Normalized	Difference	Actual % Diff				
2002	4,941,278							
2003	5,338,264							
2004	5,338,264	5,243,124	(95,140)	-1.78%				
2005	5,441,728							
2006	5,012,904	5,496,281	483,377	9.64%				
2007	5,269,938	5,496,281	226,343	4.29%				
2008	5,269,938	5,496,281	226,343	4.29%				

Exhibit: 3

Tab: 2 Schedule: 6 Page: 2

	HISTORICAL AVERAGE CONSUMPTION								
Unmetered									
<u>Year</u>	Weather Actual	Weather Normalized	<u>Difference</u>	Actual % Diff					
2002	18,804								
2003	18,804								
2004	18,804	18,807	3	0.02%					
2005	19,951								
2006	19,951	19,951	-	0.00%					
2007	19,951	19,951	-	0.00%					
2008	19,951	19,951	-	0.00%					

HISTORICAL AVERAGE CONSUMPTION								
Streetlight								
Year	Weather Actual	Weather Normalized	Difference	Actual % Diff				
2002	339,552							
2003	347,926							
2004	347,926	325,918	(22,008)	-6.33%				
2005	345,396							
2006	351,709	351,709	-	0.00%				
2007	354,624	359,553	4,929	1.39%				
2008	357.538	359.553	2.015	0.56%				

Exhibit: 3

Tab: 3

Schedule: 1 Page: 1

Hydro 2000 Inc.

OTHER DISTRIBUTION REVENUE

OTHER DISTRIBUTION REVENUE	2006 Board Approved	2006 Actual	Variance form 2006 Board Approved	2006 Actual	2007 Bridge	Variance form 2006 Actual	2007 Bridge	2008 Test	Variance form 2007 Actual
	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)	(\$'s)
Distribution Services Revenue	232,580	236,347	3,767	236,347	236,348	1	236,348	288,963	52,615
LV Charges	106,241	56,565	(49,676)	56,565	106,241	49,676	106,241	121,000	14,759
Retail Services Revenues	494	1,329	835	1,329	1,329	-	1,329	1,329	-
Service Transaction Requests (STR) Revenues	1	30	29	30	30	-	30	30	-
SSS Admin			-	ı		-	-	-	-
Electric Services Incidental to Energy Sales			-	-		-	_		-
Transmission Charges Revenue			-	-		-	-		-
Transmission Services Revenue			-	-		-	-		-
Interdepartmental Rents			-	-		-	-		-
Rent from Electric Property	5,923	6,526	603	6,526	6,526	-	6,526	6,526	-
Other Utility Operating Income	27,706	35,650	7,944	35,650	16,314	(19,336)	16,314	16,314	-
Other Electric Revenues	5,106	4,070	(1,036)	4,070	4,070	-	4,070	4,070	-
Late Payment Charges	4,039	4,403	364	4,403	4,403	-	4,403	4,403	-
Sales of Water and Water Power			-	-		-	-		-
Miscellaneous Service Revenues	2,246		(2,246)	-		-	-		-
Provision for Rate Refunds			-	-		-	-		-
TOTAL	384,336	344,920	(39,416)	344,920	375,261	30,341	375,261	442,635	67,374

Exhibit: 3 Tab: 3

Schedule: 2 Page: 1

Hydro 2000 Inc

MATERIALITY ANALYSIS ON OTHER DISTRIBUTION REVENUE

For any rate base related variance exceeding the materiality threshold of 1%, a detailed explanation is required.

Materiality calculation	
2006 Board approved distribution expenses	292,511
Materiality = 1% of distribution expenses	2,925

Variances explanations								
GROSS ASSET	2006 Board Approved	2006 Actual	Variance from 2006 Board Approved					
	(\$'s)	(\$'s)	(\$'s)					
Distribution Services Revenue	232,580	236,347	3,767					
25 new customers and connections								
LV Charges	106,241	56,565	(49,676)					
Amounts approved was for 12 months but only 7 months charged because rates approved on May 25. Hydro 2000 is a winter peaking utility.								
			·					
Other Utility Operating Income	27,706	35,650	7,944					
Increase in regulatory assets. Therefore, inc	rease in interests	on regulatory as	sets.					

Variances explanations							
GROSS ASSET	GROSS ASSET 2006 Actual 2007 Bridge						
	(\$'s)	(\$'s)	(\$'s)				
LV Charges	56,565	106,241	49,676				
Amount billed for 12 months vs 7 months in 2	2006						
Other Utility Operating Income	35,650	16,314	(19,336)				
Interests on regulatory assets are not considered in the new 2008 rebasing model							

Exhibit: 3

Tab: 3 Schedule: 2

Page: 2

Hydro 2000 Inc

Variances explanations								
GROSS ASSET	2007 Bridge 2008 Test							
	(\$'s)	(\$'s)	(\$'s)					
Distribution Services Revenue	236,348	288,963	52,615					
Distribution revenues based on the new 2008 rebasing model. The increase is mostly due to the rebasing costs of \$60,000.								
LV Charges	106,241	121,000	14,759					

The 2008 LV Charges is a more realistic forecast. The amount submitted by Hydro One for the 2004 model was understated.

Exhibit: 3

Tab: 3 Schedule: 3

Page: 1

Hydro 2000 Inc

RATE OF RETURN ON OTHER DISTRIBUTION ACTIVITIES

Hydro 2000 Inc does not have affiliates and does not do any non-core deliver activities.

Exhibit: 3 Tab: 3

Schedule: 4 Page: 1

Hydro 2000 Inc.

DISTRIBUTION REVENUE DATA

	2006 Board Approved									
	Customers	Customers Consumption		Distribution Revenues	Distribution revenues - LV Charges	Total Revenues	Unit Revenues			
	(Year- End)	(kWh / KW)	(\$)	(\$)	(\$)	\$/kWh				
Residential	969	15,567,706	159,375	63,858	223,233	0.0085				
G.S. < 50	147	5,504,335	50,921	22,682	73,603	0.0097				
G.S. > 50	11	13,164	20,295	18,747	39,042	2.3345				
Unmetered	3	12,536	282	75	357	0.0097				
Streetlight	351	855	1,708	879	2,587	2.2085				
TOTAL	1,481	21,098,596	232,581	106,241	338,822					

	2006 Actual					
	Customers	Consumptio n	Distributio n Revenues	Distribution revenues - LV Charges	Total Revenues	Unit Revenues
	(Year- End)	(kWh / KW)	(\$)	(\$)	(\$)	\$/kWh
Residential	979	15,223,723	155,659	34,285	189,944	0.0085
G.S. < 50	147	5,236,111	48,787	8,688	57,475	0.0097
G.S. > 50	12	11,583	10,271	11,701	21,972	2.3345
Unmetered	6	19,951	2,738	462	3,199	0.0097
Streetlight	362	925	9,649	1,403	11,052	2.2085
TOTAL	1,506	20,492,293	227,104	56,539	283,643	

Exhibit: 3 Tab: 3

Schedule: 4 Page: 2

2006 Actual - Normalized								
	Customers	Consumption	Distribution Revenues	Normalized Consumption	Normalized Distribution Revenues	Unit Revenues		
	(Year- End)	(kWh / KW)	(\$)	(kWh / KW)	(\$)	\$/kWh		
Residential	979	15,223,723	155,659	16,086,959	160,551	0.0085		
G.S. < 50	147	5,236,111	48,787	5,682,016	53,955	0.0097		
G.S. > 50	12	11,583	10,271	12,700	16,414	2.3345		
Unmetered	6	19,951	2,738	19,951	2,738	0.0097		
Streetlight	362	925	9,649	925	9,649	2.2085		
TOTAL	1,506	20,492,293	227,104	21,802,551	243,307			

	2007 Bridge	e - Normalized				,
	Customers	Consumption	Distribution Revenues	Normalized Consumption	Normalized Distribution Revenues	
	(Year- End)	(kWh / KW)	(\$)	(kWh / KW)	(\$)	
Residential	997	15,503,628	160,386	16,382,735	169,480	0.0086
G.S. < 50	147	5,236,111	49,290	5,682,016	53,488	0.0098
G.S. > 50	12	1,212	1,084	13,280	11,882	2.3555
Unmetered	6	19,951	2,766	19,951	2,766	0.0098
Streetlight	368	941	9,904	941	9,904	2.2284
TOTAL	1,530	20,761,843	223,431	22,098,923	247,520	

Exhibit: 3

Tab: 3 Schedule: 4 Page: 3

	2008 Test -	Normalized_				
	Customers	Consumption	Distribution Revenues	Forecast Normalized Consumption	Forecast Normalized Distribution Revenues	Unit Revenues
	(Year- End)	(kWh / KW)	(\$)	(kWh / KW)	(\$)	\$/kWh
Residential	1,005			16,514,191	259,917	0.0123
G.S. < 50	147			5,682,016	97,755	0.0135
G.S. > 50	12			13,280	41,942	3.4844
Unmetered	6			19,951	1,023	0.0334
Streetlight	368			941	8,552	7.7596
TOTAL	1,538			22,230,379	409,189	

Exhibit: 3

Tab: 4 Schedule: 1

Page: 1

Hydro 2000 Inc.

DESCRIPTION OF REVENUE SHARING

Not Applicable.

Exhibit: 4 Tab: 1

Schedule: 1

Page: 1

- Operating	Costs		
	1		Overview
		1	Overview of Operating Costs
		2	Summary of Operating Costs Table
	2		OM&A Costs
		1	OM&A Detailed Costs Table
		2	Variance Analysis on OM&A Table
		3	Materiality Analysis on OM&A Costs
		4	Shared Services
		5	Corporate Cost Allocation
		6	Purchase of Services
		7	Employee Compensation, Incentive Plan Expenses, Pension Expense and Post Retirement Benefits
		8	Depreciation, Amortization and Depletion
		9	Loss Adjustment Factor
		10	Materiality Analysis on Loss Adjustment Factor
	3		Income Tax, Large Corporation Tax
		1	Tax Calculations
		2	Interest Expense
		3	Capital Cost Allowance (CCA)

Exhibit: 4 Tab: 1

Schedule: 1

Page: 2

Hydro 2000 Inc.

OVERVIEW OF OPERATING COSTS

Operating Costs

The operating costs presented in this exhibit represent the annual expenditures required for to sustain The Applicant's Distribution Operations. The information presented in this exhibit is grouped into two different categories: Operation & Maintenance and Other Costs which include items such as Administration & General, Sales Promotion & Customer Accounting, Depreciation, Amortization and Depletion, Shared Services and Loss Adjustment Factor.

The second category includes Income Tax, Large Corporation Tax and Ontario Capital Taxes. Exhibit, Tab, Schedule provides a summary of The Applicant's Operating Costs for the historical, bridge and test years.

OM&A Costs

The OM&A costs in this exhibit represents The Applicant's integrated set of asset maintenance and customer activity needs to meet public and employee safety objectives; to comply with the Distribution System Code, environmental requirements and Government direction; and to maintain distribution business service quality and reliability at targeted performance levels. These costs also include providing services to customers connected to the Applicant's Distribution system, and to meet the service levels stipulated in the Standard Supply Service Code and the Retailer Settlement Codes.

The proposed OM&A cost expenditures for the 2008 test year result from a rigorous business planning and work prioritization process that reflects risk-based decision making to ensure that the most appropriate, cost effective solutions are put in place.

OM&A expenditures totaled \$2,065,563 in 2006 Board Approved, \$2,245,125 in 2006 Actual and are forecast to be \$2,257,797 in 2007 and \$2,430,214 in 2008.

Income Tax, Large Corporation Tax and Ontario Capital Taxes

This information consists of detailed calculations of income taxes, and indemnity payments to the Province. Details of the expenditures are filed at Exhibit 4, Tab 3, Schedule 1.

The Income Taxes, Large Corporation Taxes and Ontario Capital Taxes expenditures totaled \$ 0 in 2006 Board Approved, \$26,425 in 2006 Actual and are forecast to be \$21,970 in 2007 and \$32,660 in 2008.

Exhibit: 4 Tab: 1

Schedule: 2

Page: 1

Hydro 2000 Inc.

SUMMARY OF OPERATING COSTS

SUMMARY OF OPERATING COSTS	2006 Board Approved	2006 Actual	2007 Bridge	2008 Test
OM&A expenses				
Operation (Working Capital)	439	275	738	738
Maintenance (Working Capital)	7,031	3,717	3,717	3,717
Billing and Collections	78,009	80,719	85,914	87,658
Community Relations	-	-	-	-
Administrative and General Expenses	214,502	133,798	136,341	197,631
Amortization Expenses	36,818	44,364	48,834	56,569
Cost of Power	1,728,764	1,982,252	1,982,253	2,083,901
Other Operating Costs	18,031	20,103	18,846	17,518
LCT,OCT and Income Taxes	-	26,425	21,970	32,660
Total Operating Costs	2,083,594	2,291,653	2,298,613	2,480,392

Exhibit: 4

Tab: 2 Schedule: 1

Page: 1

Hydro 2000 Inc.

OM&A COSTS TABLE

OM&A COSTS	2006 Board Approved	2006 Actual	Variance form 2006 Board Approved	2006 Actual	2007 Bridge	Variance form 2006 Actual	2007 Bridge	2008 Test	Variance form 2007 Bridge
Operation (Working Capital)									
5005-Operation Supervision and Engineering	-	-	-	-	-	-	-	-	-
5010-Load Dispatching	-	-	-	-	-	-	-	-	-
5012-Station Buildings and Fixtures Expense	-	-	-	-	-	-	-	-	-
5014-Transformer Station Equipment - Operation Labour	-	-	-	-	-	-	-	-	-
5015-Transformer Station Equipment - Operation Supplies and Expenses	-	-	-	-	-	-	-	-	-
5016-Distribution Station Equipment - Operation Labour	-	-	-	-	-	-	-	-	-
5017-Distribution Station Equipment - Operation Supplies and Expenses	-	-	-	-	-	-	-	-	-
5020-Overhead Distribution Lines and Feeders - Operation Labour 5025-Overhead Distribution Lines & Feeders - Operation Supplies and Expenses	-	-	-	-	-	-	-	-	-
5030-Overhead Subtransmission Feeders - Operation	-	-	-	-	-	-	-	-	-
5035-Overhead Distribution Transformers- Operation	-	-	-	-	463.00	463.00	463.00	463.00	-
5040-Underground Distribution Lines and Feeders - Operation Labour 5045-Underground Distribution Lines & Feeders - Operation Supplies & Expenses	-		-		-	-	-	-	-
5050-Underground Subtransmission Feeders - Operation	-	-	-	-	-	-	-	-	-
5055-Underground Distribution Transformers - Operation	-	-	-	-	-	-	-	-	-
5060-Street Lighting and Signal System Expense	-	-	-	-	-	-	-	-	-
5065-Meter Expense	439.00	275.00	(164.00)	275.00	275.00	-	275.00	275.00	-
5070-Customer Premises - Operation Labour	-	-	-	-	-	-	-	-	-
5075-Customer Premises - Materials and Expenses	-	-	-	-	-	-	-	-	-
5085-Miscellaneous Distribution Expense	-	-	-	-	-	-	-	-	-

Exhibit: 4 Tab: 2 Schedule: 1

Page: 2

5090-Underground Distribution Lines and Feeders - Rental Paid		-	-	-	-	-	-	-	-	-
5095-Overhead Distribution Lines and Feeders - Rental Paid		-	-	-	-	-	-	-	-	-
5096-Other Rent		-	-	-	-	-	-	-	-	-
	Sub-Total	439.00	275.00	(164.00)	275.00	738.00	463.00	738.00	738.00	
Maintenance (Working Capital)										
5105-Maintenance Supervision and Engineering		-	-	-	-	-	-	-	-	-
5110-Maintenance of Buildings and Fixtures - Distribution Stations		-	-	-	-	-	-	-	-	-
5112-Maintenance of Transformer Station Equipment		-	-	-	-	-	-	-	-	-
5114-Maintenance of Distribution Station Equipment		-	-	-	-	-	-	-	-	-
5120-Maintenance of Poles, Towers and Fixtures		-	-	-	-	-	-	-	-	-
5125-Maintenance of Overhead Conductors and Devices		6,046.00	2,064.00	(3,982.00)	2,064.00	2,064.00	-	2,064.00	2,064.00	-
5130-Maintenance of Overhead Services		-	-	-	-	-	-	-	-	-
5135-Overhead Distribution Lines and Feeders - Right of Way		-	-	-	-	-	-	-	-	-
5145-Maintenance of Underground Conduit		-	-	-	-	-	-	-	-	-
5150-Maintenance of Underground Conductors and Devices		-	-	-	-	-	-	-	-	-
5155-Maintenance of Underground Services		-	-	-	-	-	-	-	-	-
5160-Maintenance of Line Transformers		-	-	-	-	-	-	-	-	-
5165-Maintenance of Street Lighting and Signal Systems		-	-	-	-	-	-	-	-	-
5170-Sentinel Lights - Labour		-	-	-	-	-	-	-	-	-
5172-Sentinel Lights - Materials and Expenses		-	-	-	-	-	-	-	-	-
5175-Maintenance of Meters		985.00	1,653.00	668.00	1,653.00	1,653.00	-	1,653.00	1,653.00	-
5178-Customer Installations Expenses- Leased Property		-	-	-	-	-	-	-	-	-
5185-Water Heater Rentals - Labour		-	-	-	-	-	-	-	-	-
5186-Water Heater Rentals - Materials and Expenses		-	-	-	-	-	-	-	-	-
5190-Water Heater Controls - Labour		-	-	-	-	-	-	-	-	-
5192-Water Heater Controls - Materials and Expenses		-	-	-	-	-	-	-	-	-
5195-Maintenance of Other Installations on Customer Premises										

Exhibit: 4 Tab: 2 Schedule: 1

Page: 3

		-	-	-	-	-	-	-	-	-
	Sub-Total	7,031.00	3,717.00	(3,314.00)	3,717.00	3,717.00	-	3,717.00	3,717.00	-
Billing and Collections										
5305-Supervision		-	-	-	-	-	-	-	-	-
5310-Meter Reading Expense		-	-	-	-	-	-	-	-	-
5315-Customer Billing		76,206.00	76,968.00	762.00	76,968.00	78,507.00	1,539.00	78,507.00	80,077.00	1,570.00
5320-Collecting		-	-	-	-	-	-	-	-	-
5325-Collecting- Cash Over and Short		-	-	-	-	-	-	-	-	-
5330-Collection Charges		(1,256.00)	94.00	1,350.00	94.00	94.00	-	94.00	121.00	27.00
5335-Bad Debt Expense		3,059.00	3,657.00	598.00	3,657.00	7,313.00	3,656.00	7,313.00	7,460.00	147.00
5340-Miscellaneous Customer Accounts Expenses		-	-	-	-	-	-	-	-	-
	Sub-Total	78,009.00	80,719.00	2,710.00	80,719.00	85,914.00	5,195.00	85,914.00	87,658.00	1,744.00
Community Relations										
5405-Supervision		-	-	-	-	-	-	-	-	-
5410-Community Relations - Sundry		-	-	-	-	-	-	-	-	-
5415-Energy Conservation		-	-	-	-	-	-	-	-	-
5420-Community Safety Program		-	-	-	-	-	-	-	-	-
5425-Miscellaneous Customer Service and Informational Expenses		-	-	-	-	-	-	-	-	-
5505-Supervision		-	-	-	-	-	-	-	-	-
5510-Demonstrating and Selling Expense		-	-	-	-	-	-	-	-	-
5515-Advertising Expense		-	-	-	-	-	-	-	-	-
5520-Miscellaneous Sales Expense		-	-	-	-	-	-	-	-	-
	Sub-Total	-	-	-	-	-	-	-	-	-
Administrative and General Expenses										
5605-Executive Salaries and Expenses		9,455.00	8,871.00	(584.00)	8,871.00	8,871.00	-	8,871.00	8,871.00	-
5610-Management Salaries and Expenses		50,075.00	57,752.00	7,677.00	57,752.00	60,062.00	2,310.00	60,062.00	61,263.00	1,201.00

Exhibit: 4

Tab: 2 Schedule: 1

Page: 4

	Sub-Total	36,818.00	44,364.00	7,546.00	44,364.00	48,834.00	4,470.00	48,834.00	56,569.00	7,735.00
5740-Amortization of Deferred Charges		-	-	-	-	-	-	-	-	-
5735-Amortization of Deferred Development Costs		-	-	-	-	-	-	-	-	-
5730-Amortization of Unrecovered Plant and Regulatory Study Cost	s	-	-	-	-	-	-	-	-	-
5725-Miscellaneous Amortization		-	-	-	-	-	-	-	-	-
5720-Amortization of Electric Plant Acquisition Adjustments		-	-	-	-	-	-	-	-	-
5715-Amortization of Intangibles and Other Electric Plant		463.00	463.00	-	463.00	-	(463.00)	-	-	-
5710-Amortization of Limited Term Electric Plant		-	-	-	-	-	-	-	-	-
5705-Amortization Expense - Property, Plant, and Equipment		36,355.00	43,901.00	7,546.00	43,901.00	48,834.00	4,933.00	48,834.00	56,569.00	7,735.00
Amortization Expenses										
	Sub-Total	214,502.00	133,798.00	(80,704.00)	133,798.00	136,341.00	2,543.00	136,341.00	197,631.00	61,290.00
5685-Independent Market Operator Fees and Penalties		-	-	-	-	-	-	-	-	-
5680-Electrical Safety Authority Fees		-	3,809.00	3,809.00	3,809.00	3,809.00	-	3,809.00	3,809.00	-
5675-Maintenance of General Plant		-	-	-	-	-	-	-	-	-
5670-Rent		7,560.00	7,873.00	313.00	7,873.00	7,873.00	-	7,873.00	7,873.00	-
5665-Miscellaneous General Expenses		106,241.00	-	(106,241.00)	-	-	-	-	-	-
5660-General Advertising Expenses		-	-	-	-	-	-	-	-	-
5655-Regulatory Expenses		6,526.00	6,571.00	45.00	6,571.00	6,571.00	-	6,571.00	66,500.00	59,929.00
5650-Franchise Requirements		-	-	-	-	-	-	-	-	-
5645-Employee Pensions and Benefits		9,183.00	7,766.00	(1,417.00)	7,766.00	7,999.00	233.00	7,999.00	8,159.00	160.00
5640-Injuries and Damages		919.00	-	(919.00)	-	-	-	-	-	-
5635-Property Insurance		3,807.00	3,410.00	(397.00)	3,410.00	3,410.00	-	3,410.00	3,410.00	-
5630-Outside Services Employed		8,058.00	28,733.00	20,675.00	28,733.00	28,733.00	-	28,733.00	28,733.00	-
5625-Administrative Expense Transferred Credit		-	-	-	-	-	-	-	-	-
5620-Office Supplies and Expenses		9,345.00	9,013.00	(332.00)	9,013.00	9,013.00	-	9,013.00	9,013.00	-
5615-General Administrative Salaries and Expenses		3,333.00	-	(3,333.00)	-	-	-	-	-	-

Exhibit: 4

Tab: 2 Schedule: 1

Page: 5

Cost		

	Sub-Total	1.728.764.00	1.982.252.00	253.488.00	1.982.252.00	1.982.253.00	1.00	1.982.253.00	2.083.901.00	101.648.00
5685-Independent Market Operator Fees and Penalties		-	-	-	-	-	-	-	-	-
4750-LV Charges Costs		-	56,564.00	56,564.00	56,564.00	56,565.00	1.00	56,565.00	56,565.00	-
4730-Rural Rate Assistance Expense		-	-	-	-	-	-	-	-	-
4716-Charges-CN		129,712.00	123,624.00	(6,088.00)	123,624.00	123,624.00	-	123,624.00	123,624.00	-
4714-Charges-NW		149,261.00	142,157.00	(7,104.00)	142,157.00	142,157.00	-	142,157.00	142,157.00	-
4712-Charges-One-Time		-	-	-	-	-	-	-	-	-
4710-Cost of Power Adjustments		(53,765.00)	-	53,765.00	-	-	-	-	-	-
4708-Charges-WMS		170,252.00	160,329.00	(9,923.00)	160,329.00	160,329.00	-	160,329.00	160,329.00	-
4705-Power Purchased		1,333,304.00	1,499,578.00	166,274.00	1,499,578.00	1,499,578.00	-	1,499,578.00	1,601,226.00	101,648.00

Exhibit: 4 Tab: 2

Schedule: 2

Page: 1

Hydro 2000 Inc.

VARIANCE ANALYSIS ON OM&A COSTS TABLE

A summary of operating and maintenance costs is presented in Exhibit 4, Tab 2, Schedule 2.

2008 Test year

The 2008 test year Operating & Maintenance forecast is shown in Exhibit 4, Tab 2, Schedule 1-2. The total net cost is expected to be \$2,430,214. Net wages and benefits make up 4.39% of the total net Operating & Maintenance costs. Administration and General costs total a further 8.12%. Customer Accountings costs accounts for 0.25% of the total Operating and Maintenance costs.

Comparison to Fiscal 2007 Bridge Year

Exhibit 4, Tab 2, Schedule 3, provides a comparison of the 2008 test year forecast of Operation & Maintenance expenses to that forecast for the 2007 bridge year. Total net Operation & Maintenance costs are forecast to increase \$172,417 or 7.6%.

2007 Bridge Year

The 2007 Bridge year Operating & Maintenance forecast is shown in Exhibit 4, Tab 2, Schedule 1-2. The total net cost is expected to be \$2,257,797. Net wages and benefits make up 4.63% of the total net Operating & Maintenance costs. Administration and General costs total a further 6.04%. Customer Accountings costs accounts for 0.28% of the total Operating and Maintenance costs.

Comparison to 2006 Actual

Exhibit 4, Tab 2, Schedule 3, provides a comparison of the 2007 Bridge year forecast of Operation & Maintenance expenses to that forecast for the 2006 Actual year. Total net Operation & Maintenance costs are forecast to increase \$12,762 or 0.56%.

2006 Actual

The 2006 Actual year Operating & Maintenance forecast is shown in Exhibit 4, Tab 2, Schedule 1-2. The total net cost is expected to be \$2,245,125. Net wages and benefits make up 4.51% of the total net Operating & Maintenance costs. Administration and General costs total a further 5.96%. Customer Accountings costs accounts for 0.27% of the total Operating and Maintenance costs.

Comparison to 2006 Board Approved

Exhibit 4, Tab 2, Schedule 3, provides a comparison of the 2006 Actual year forecast of Operation & Maintenance expenses to that forecast for the 2006 Board Approved year. Total net Operation & Maintenance costs are forecast to increase \$179,562 or 8.69%.

Exhibit: 4 Tab: 2

Schedule: 2

Page: 2

Hydro 2000 Inc.

2006 Board Approved

The 2006 Actual year Operating & Maintenance forecast is shown in Exhibit 4, Tab 2, Schedule 1-2. The total net cost is expected to be \$2,065,563. Net wages and benefits make up 4.56% of the total net Operating & Maintenance costs. Administration and General costs total a further 10.38%. Customer Accountings costs accounts for 0.27% of the total Operating and Maintenance costs.

Exhibit: 4 Tab: 2

Schedule: 3

Page: 1

Hydro 2000 Inc.

MATERIALITY ANALYSIS ON OM&A COSTS

A written explanation is required for operating costs related information when a variance greater or equal to 1% of the total distribution expenses before PILs, whichever is larger.

Materiality calculation								
2006 Board approved distribution expenses		292,511						
Materiality = 1% of distribution expenses		2,925						

Variances explanations										
OM&A	2006 Board Approved	2006 Actual	Variance from 2006 Board Approved							
	(\$'s)	(\$'s)	(\$'s)							
5125-Maintenance of Overhead Conductors and Devices	6,046.00	2,064.00	(3,982)							
There were less unpredicted weather damage	es to distribution s	system.	T							
5610-Management Salaries and Expenses	50,075.00	57,752.00	7,677							
There was a 2% salary increase for 2005 and increased the salaries by 2% each year. Ther and smart meters.										
5615-General Administrative Salaries and Expenses	3,333.00	-	(3,333)							
\$3,000 of the approved amount was for the El classified in account 5630.	DA 2004 membe	rship. In 2006, tl	nis amount was							
5630-Outside Services Employed	8,058.00	28,733.00	20,675							

There was approximately \$10,000 in 2006 for the cost allocation and \$7,500 for EDR 2006 for written hearings and questions from the board. The EDA membership was included in account 5615 when approved by the board. The EDA membership for 2006 was \$4,200.

Exhibit: 4 Tab: 2

Schedule: 3 Page: 2

OM&A	2006 Board Approved	2006 Actual	Variance from 2006 Board Approved
	(\$'s)	(\$'s)	(\$'s)
5665-Miscellaneous General Expenses	106,241.00	-	(106,241)
LV charges included in EDR 2006 rates. Per acaccount 4750.	ccounting proced	lures, the actual	amount was included ir
5680-Electrical Safety Authority Fees	-	3,809.00	3,809
This account includes the ESA membership wh	ich started in 200	05 and the audit	fees for 2006.
5705-Amortization Expense - Property, Plant, and Equipment	36,355.00	43,901.00	7,546
There is more amortization than the approved a	mount due to ac	quisitions of the	capital assets.
4705-Power Purchased	1,333,304.00	1,499,578.00	166,274
Increase in the cost of power per kwh even thou	ugh there was a i	reduction in the c	consumption.
4708-Charges-WMS	170,252.00	160,329.00	(9,923)
Reduction in the consumption.			
4710-Cost of Power Adjustments Adjustment included in EDR 2006.	(53,765.00)	-	53,765
4714-Charges-NW Reduction in the consumption.	149,261.00	142,157.00	(7,104)
4716-Charges-CN	129,712.00	123,624.00	(6,088)
Reduction in the consumption.			(0,000)

Exhibit: 4

Tab: 2

Schedule: 4 Page: 1

Hydro 2000 Inc.

SHARED SERVICES

Hydro 2000 Inc. does not have any affiliates and is not sharing any services.

Exhibit: 4 Tab: 2

Schedule: 5

Page: 1

Hydro 2000 Inc.

CORPORATE COST ALLOCATION

Hydro 2000 Inc. does not have any affiliates and is not sharing any services.

Exhibit: 4 Tab: 2 Schedule: 6

Page: 1

Hydro 2000 Inc.

PURCHASE OF SERVICES

The following table shows all the purchase of services and a description of the nature of the activity transacted with a summary of tendering process for 2006 Actual, 2007 Bridge and 2008 Test Year.

PURCHASE OF SERVICES			2006	2007	2008
			Actual	Bridge	Test
Name of Company transacting with the Applicant	Summary of the nature of the activity transacted	Summary of tendering process/summary of cost approach			
_ Township of Alfred and Plantagenet	Office space Rented	Lease Contract	7,873	8,160	8,400
Sproule Powerline	Lines maintenance	Hourly and / or tender	46,324	90,000	75,000
ORES	Billing	Contract	27,660	28,000	28,000
Marcel Gaudreault	Metering	Hourly		1,100	
RCS	Regulatory compliance with OEB Board	Hourly	1,100 3,425	3,425	7,500 5,500
Deloitte	Regulatory compliance with OEB Board and audit	Hourly	11,033	11,033	30,000
EDA	Membership fee	Membership fee	4,200	4,200	4,200
Hydro One	Cost allocation review - Weather normalization	Contract	9,776	-	-
Elenchus Research Associates	Regulatory compliance with OEB Board	Hourly	-	-	30,000
Canpage	Answering Service	Tender	2,054	2,400	2,400
IGS Hawkesbury	Internet Provider	Tender	840	780	780
Imprimerie Serge	Printing Shop	Tender		1,500	1,500
Stantec	Line loss study	Tender	14,660		
Quasar	ESA Audit	Tender	1,950	1,950	2,000
Vi-tech Systems	IT	Hourly/Tender	6,026	2,000	2,000

Exhibit: 4 Tab: 2

Schedule: 7 Page: 1

Hydro 2000 Inc.

EMPLOYEE DESCRIPTION

Number of employees (Full-time equivalents (FTE's):

EMPLOYEE DESCRI	PTI	ON				
Number of employee	s (F	-ull-time equiva	lents (FTE's	s):		
		2006 Board Approved		<u>2006</u> <u>Actual</u>	<u>2007</u> Bridge	2008 Test
Executive		1		1	1	1
Management		0		0	0	0
Non-Unionized		1		1	1	1
Unionized		0		0	0	0
total		2		2	2	2

Number of employees (Part-time equivalents (PTE's):

	2006 Board Approved	<u>2006</u> <u>Actual</u>	<u>2007</u> <u>Bridge</u>	2008 Test
Executive	0	0	0	0
Management	0	0	0	0
Non-Unionized	0	0	0	0
Unionized	0	0	0	0

Compensation (Total Salary and Wages (\$)):

Management Non-		2006 Board Approved	<u>Average</u>	<u>2006</u> <u>Actual</u>	<u>Average</u>	<u>2007</u> <u>Bridge</u>	Average	2008 Test	<u>Average</u>
Non-	Executive	50,075	50,075	56,152	56,152	58,398	58,398	59,566	59,566
	Management								
		35,117	35,117	37,772	37,772	38,527	38,527	39,298	39,298
Unionized	Unionized								
	Total	85,192	42.596	93.924	46.962	96.926	48.463	98.864	49,432

Exhibit: 4 Tab: 2

Schedule: 7

Page: 2

Hydro 2000 Inc.

Compensation (Total Benefits (\$)):

Compensation (Total Benefits (\$)):										
	2006 Board Approved	Average	2006 Actual	Average	<u>2007</u> Bridge	Average	2008 Test	Average		
Executive	4,883	4,883	4,056	4,056	4,218	4,218	4,303	4,303		
Management										
Non- Unionized	4,300	4,300	3,446	3,446	3,515	3,515	3,585	3,585		
Unionized										
Total	9,183	4,592	7,502	3,751	7,733	3,867	7,888	3,944		

Compensation (Total Incentives (\$)): Not Applicable

<u> 2006</u>

<u>Board</u> <u>2006</u> <u>2007</u>

 Approved
 Average
 Actual
 Average
 Bridge
 Average
 2008 Test
 Average

Executive
Management
Non-Unionized
Unionized

Total of Costs charged to O&M (\$)): Not Applicable

2006 Base

 Board
 2006
 2007
 2008

 Approved
 Average
 Actual
 Average
 Bridge
 Average
 Test
 Average

TOTAL

Status of pension funding

Not applicable.

Exhibit: 4 Tab: 2

Schedule: 8

Page: 1

Hydro 2000 Inc.

DEPRECIATION, AMORTIZATION AND DEPLETION

DEPRECIATION, AMORTIZATION AND DEPLETION	2006 Board Approved (\$'s)	Depre Rate	ciation (\$'s)	2006 Actual (\$'s)	Depre Rate	ciation (\$'s)	2007 Bridge (\$'s)	Depre Rate	ciation (\$'s)	2008 Test (\$'s)	Depre Rate	eciation (\$'s)
Land and Buildings	-		-	-		-	-		-	-		-
TS Primary Above 50	-		-	-		-	-		-	-		-
DS	-		-	-		-	-		-	-		-
Poles and Wires	362,474	4%	26,038	452,286	4%	29,194	515,267	4%	30,454	555,267	4%	32,513
Line Transformers	52,828	4%	3,795	60,495	4%	4,012	76,694	4%	4,336	76,694	4%	4,660
Services and Meters	43,687	4%	3,138	101,289	4%	5,679	101,289	4%	5,679	201,289	4%	7,679
General Plant	-		-	-		-	-		-	-		-
IT Assets	16,649	20%	3,330	48,217	20%	7,553	90,217	20%	11,752	90,217	20%	15,949
Equipment	3,084	10%	54	3,246	10%	54	3,246	10%	54	3,246	10%	54
Other Distribution Assets	-	4 - 20 %	-	(64,783)	4 - 20	(2,591)	(107,165)	4 - 20	(3,439)	(107,165)	4 - 20 %	(4,286)
GROSS ASSET TOTAL	478,722		36,355	600,750	I	43,901	679,548	1	48,836	819,548		56,569

Exhibit: 4 Tab: 2

Schedule: 9

Page: 1

Hydro 2000 Inc.

LOSS ADJUSTMENT FACTOR CALCULATION

LOSS ADJUSTMENT FACTOR CALCULATION 2002 2003 2004 2005 2006 TO							
	CALCULATION	2002	2003	2004	2005	2006	TOTAL
Α	"Wholesale" kWh (HONI)	25,219,307	27,395,339	26,939,359	26,811,027	25,425,732	131,790,764
	Total loss factor (HONI) TLF of 3.4%	857,447	931,442	915,938	911,574	864,475	4,480,876
В	Wholesale kWh for Large Use customer(s) (HONI)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	-
С	Net "Wholesale" kWh (A)-(B)	25,219,307	27,395,339	26,939,359	26,811,027	25,425,732	131,790,764
D	Retail kWh (Distributor)	24,715,774	26,545,865	25,950,063	25,663,602	24,327,396	127,202,700
D1	Load Transfer Reduction	73,148	150,824	144,260	146,520	140,090	654,842
Е	Retail kWh for Large Use Customer(s) (1% loss)	6,203	7,232	7,184	5,721	5,570	31,910
F	Net "Retail" kWh (D)+(D1)-(E)	24,782,719	26,689,457	26,087,139	25,804,401	24,461,916	127,825,632
G	Loss Factor [(C)/(F)]	1.76%	2.64%	3.27%	3.90%	3.94%	
	HONI TLF of 3.4%	3.40%	3.40%	3.40%	3.40%	3.40%	
Η	Distribution Loss Adjustment Factor	5.16%	6.04%	6.67%	7.30%	7.34%	1.0661%

Exhibit: 4

Tab: 2 Schedule: 9

Page: 2

Hydro 2000 Inc.

Total Utility Loss Adjustment Factor

LAF

Supply Facility Loss Factor

Distribution Loss Factors

Secondary Metered Customer

Total Loss Factor - Secondary Metered Customer < 5,000kW

Total Loss Factor - Secondary Metered Customer > 5,000kW

Primary Metered Customer

Total Loss Factor - Primary Metered Customer < 5,000kW

Total Loss Factor - Primary Metered Customer > 5,000kW

Total Loss Factor

Secondary Metered Customer

Total Loss Factor - Secondary Metered Customer < 5,000kW 1.0610

Total Loss Factor - Secondary Metered Customer > 5,000kW N/A

Primary Metered Customer

Total Loss Factor - Primary Metered Customer < 5,000kW 1.0503

Total Loss Factor - Primary Metered Customer > 5,000kW N/A

TOTAL LOSS FACTOR

Exhibit: 4

Tab: 2 Schedule: 10

Page: 1

Hydro 2000 Inc.

MATERIALITY ANALYSIS ON DISTRIBUTION LOSSES

Hydro 2000 loss factor for the period from the year 2002 up to 2006 is **1.0661%.** In the table of calculation for Loss Adjustment factor in Exhibit 4, Tab, 2, Schedule 9 page 1, you can notice that the table has been modified to reflect Hydro One Networks Inc. Total Loss Factor charge to Hydro 2000 Inc. If you remove the TLF from LAF you will notice that we are well below the 5% at 3.1%.

Most of our system loses are incurred outside of our Distribution Area. If you refer to the Distribution Map Area in Exhibit 1, Tab 1, Schedule 10 you will notice that both Distribution Station are outside of Hydro 2000 Inc. Service Area.

Hydro One Networks Shared both DS with Hydro 2000 Inc. A line lost study was perform by Stantec Consulting Ltd. and shows that most of our system loses in Alfred Service Area occurs outside. One of the feeders is metered at the DS and the others feeder a split feeder between Hydro One Networks and Hydro 2000 is metered before the Alfred Service Area.

In the Line loss study on page 6 and page 17 of the report the total losses for F2 is 2.24% and F3 is 3.07% in Alfred Service Area and in Plantagenet Service Area total loses is 3.65% on the feeder.

The following pages contain the **LOAD FLOW STUDY FINDINGD AN RESULTS** AND **RECOMMENDATIONS** of Hydro 2000 Inc. Utility Load flow and Evaluation Study.



Table of Contents

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INTRODUCTION	1
Utility Load Flow Study	1
Objectives	1
Scope of Study	1
Assumptions and Generalizations	2
LOAD FLOW STUDY FINDINGS AND RESULTS	3
Alfred Electrical Distribution System	3
System Equipment Ratings	3
System Loading under Normal Operation	4
Feeder Voltages under Normal Operation	5
System Losses	6
System Upgrades to Minimize Losses and Support Voltage	7
Feeder Loading under Normal Conditions	8
Feeder Configurations under Existing Loading and Emergency Conditions	9
Load Growth	9
System Loading under Emergency Conditions	
Substation Redundancy	14
Plantagenet Electrical Distribution System	15
System Equipment Ratings	15
System Loading under Normal Operation	15
Feeder Voltages under Normal Operation	16
System Losses	17
Feeder Loading under Normal Conditions	17
Feeder Configurations under Existing Loading and Emergency Conditions	18
Load Growth	19
	20
System Loading under Emergency Conditions	20
System Loading under Emergency Conditions RECOMMENDATIONS	
, ,	
RECOMMENDATIONS	22
RECOMMENDATIONS	22 Tab 1
APPENDICES Appendix 1: System Base Models	Tab 1
RECOMMENDATIONS	Tab 1Tab 2Tab 3

Stantec Project No. 163300753



INTRODUCTION

UTILITY LOAD FLOW STUDY

Stantec Consulting Ltd. is pleased to submit this Utility Load Flow Study of the electrical distribution systems of both Alfred and Plantagenet for Hydro 2000 Inc. This study has been prepared in accordance with relevant standards, including the Ontario Electrical Safety Authority (ESA), National Electrical Manufacturer's Association (NEMA), Institute of Electrical and Electronic Engineers (IEEE), Municipal Electrical Association (MEA), Canadian Standards Authority (CSA), and the American National Standards Institute (ANSI).

OBJECTIVES

There were a number of objectives for this study, including:

- Determining the acceptability of the system with current and future load growth and to identify any voltage support problems, overloaded equipment, etc.
- Finding whether the system would operate acceptably during Emergency situations.
- Optimizing the system arrangement (cable sizes, load balancing, open points, etc.) to minimize losses, maximize voltage support, and to distribute loading evenly.
- The optimal placement and effects of a future substation to allow for a municipally owned substation.

SCOPE OF STUDY

The Load Flow Study for both systems includes all feeders into each town from the Hydro One 44kV Utility Substation down to each major tap at the 8.32(4.8)kV level, no secondary lines were included. All loads were represented as either point or distributed loads over the segment that they were modelled on, and are shown on the system model layouts under Appendix 1.



ASSUMPTIONS AND GENERALIZATIONS

A number of assumptions and generalizations are made when modelling a complex system. Some of the ones made in this study are as follows:

- In most cases, loads were modelled as spot loads, sized using current measurements made at strategic points within the system. For longer sections with multiple transformers, loads were distributed evenly across the section of line.
- Each feeder's loads were modelled at a Power Factor of 0.9.
- There were some discrepancies in the phasing observed between the drawing and the measurements taken. Where the actual phasing of taps or transformers could not be verified, other measurements taken within the system were examined to determine the likely phasing arrangement actually implemented. The areas of discrepancy are listed in the table below, Hydro personnel should check the devices to confirm their phasing and update the drawings if necessary.

Feeder			Phase indicated by measurements
Alfred, Fdr 2	St. Marie & St. Placide - Single Phase	Red	Blue
Alfred, Fdr 3	St. Joseph - Single-phase at end of 3 phase	Red	White
	Single-phase transformers on St. Joseph between Quesnel & Murray	Blue	Red

- The drawings 'Village of Plantagenet, Electrical Distribution System' completed on October 25, 1999
 and the 'Village of Alfred, Electrical Distribution System' completed in June 30, 1999 were used as
 the basis of the system models, with site inspections to determine line loading and feeder sizes.
- The ratings used in this study to assess the loading of various conductors are listed in the table below. Please note, while insulated cables have a fairly limited set of current ratings (typically free air, raceway, or direct buried ratings), ACSR cables have a wide range of ratings, based on ambient temperatures, peak conductor temperatures, cross winds, emissivity of the conductor, and sun heating. The following conductor ratings are standard ratings, based on maximum absolute conductor temperatures of 105°C, ambient temperatures of 30°C (Summer) and 10°C (Winter), 0.6m/sec (2feet/sec) of cross wind, 0.7 coefficient of emissivity, and full sun.

Cable Type	Rating	Ampacity @ 30 ° C Ambient	Ampacity @ 10°C Ambient
Cable - 2/0 AWG 1/C Alum TR-XLP 100%	Continuous Amps	245	245
ACSR - 336 kcmil 26/7	Continuous Amps	647	733
ACSR - 3/0 AWG	Continuous Amps	370	419
ACSR - 1/0 AWG	Continuous Amps	288	326
ACSR - #2 AWG	Continuous Amps	228	285
ACSR - #4 AWG	Continuous Amps	172	215



LOAD FLOW STUDY FINDINGS AND RESULTS

ALFRED ELECTRICAL DISTRIBUTION SYSTEM

SYSTEM EQUIPMENT RATINGS

The main equipment within the Hydro 2000 substation is listed below, along with the ratings that are used to evaluate these components for various loading scenarios. Ratings and information that could not be verified were estimated for the purposes of the study and are marked in table with an asterisk (*).

System Component	Rating	Ampacity @ 8.32kV
44kV Primary Fuses	Continuous Amps	761.5A (144A)
S&C Electric SMD-1A, 125E	Daily 8 hour peak	772.1A (146A)
Slow Speed, TCC 119-1	Emergency 8 hour peak	835.6A (158A)
44,000/8,800V Transformer	Continuous Amps	520A (98.4A)
Delta/Wye (Grnd.), 7.5 MVA (ONAN)		
Z = 5.56%		
8.32kV Secondary Switchgear	Continuous Amps	*600A
8.32kV Hydraulic Oil Circuit Reclosers	Continuous Amps	280A
Cooper Type 'L' with 280A Trips		

The size of the switches in the system, and their fuse sizes, where applicable, could not be confirmed. The ratings of most feeder level switches within this system were estimated as 100 or 200 Amps, based on the cable size they were connected to. Most aggregated backbone switches are solid-blade type and their ratings were estimated at 300 Amps, based on the cable size they were connected to. These conservative values will allow us to ensure that all normal and emergency situations which may be above that level are flagged properly. Typically winter ratings of these switches are at least 25% higher than summer ratings due to the lower ambient temperature, and are rated that way within this study. It would be beneficial to confirm and add all switch and fuse ampacities to the system utility diagram at some point in the future.



SYSTEM LOADING UNDER NORMAL OPERATION

Load measurements were taken at strategic points along the distribution network for feeder 3, and the Hydro 2000 portion of feeder 2 at two times; the first was mid January, 2003, the most recent was late October, 2005. Some of these measurements required minor adjustment in order to account for loading variations exhibited during the measurement period. Using the data provided, best efforts were made to obtain an accurate model of the Hydro 2000 system exhibiting typical loading levels to use as the nominal, base-case for analysis, as shown in the table below. Summer and winter peak loading values for each feeder were determined from an extrapolation of the base case to the metered peak recorded for each month from January 2003 through July 2005. The proportion of the total demand attributed to each phase in all models was the same as that observed for the spot measurements taken in 2005.

		Measur	ed Data	Non	ninal	Sum	mer	### Peak Amps Winter 257.2 257.2 257.2	iter
Feeder	Phase	Amps- Measured	kVA - Measured	Amps - Adjusted	kVA - Adjusted	Peak Amps Summer	Peak kVA - Summer		Peak kVA - Winter
Feeder 1	R	-	-	84.4	405.3	170.8	820.1	257.2	1234.7
Hydro One	W	-	-	84.4	405.3	170.8	820.1	257.2	1234.7
	В	-	-	84.4	405.3	170.8	820.1	257.2	1234.7
Feeder 1 Total	-	-	-	-	1217.2	-	2462.7	-	3707.8
Feeder 2	R	-	-	21.8	104.8	44.2	212.1	66.5	319.3
Hydro One	W	-	-	21.8	104.8	44.2	212.1	66.5	319.3
	В	-	-	21.8	104.8	44.2	212.1	66.5	319.3
	Total	-		-	314.8	-	636.9	-	958.9
Feeder 2	R	50	240.0	50.4	241.9	102.0	489.4	150.9	724.1
Hydro 2000	W	44	211.2	44.3	212.6	89.6	430.1	132.8	637.2
	В	34	163.2	32.1	154.1	64.9	311.7	102.6	492.4
	Total	-	614.4	-	608.6	-	1231.2	-	1853.6
Feeder 2	R	-	-	72.2	346.7	146.1	701.5	217.4	1043.4
Hydro 2000 &	W	-	-	66.1	317.5	133.8	642.2	199.3	956.5
Hydro One	В	-	-	53.9	258.9	109.1	523.8	169.1	811.7
Feeder 2 Total	-	-	-	-	923.1	-	1867.5	-	2811.6
Feeder 3	R	90	432.0	93.3	448.0	158.8	762.3	230.5	1106.4
	W	86	412.8	87.7	421.2	149.3	716.6	216.7	1040.1
	В	96	460.8	103.86	498.5	176.7	848.3	256.5	1231.2
Feeder 3 Total	-	-	1305.6	-	1367.7	-	2327.1	-	3377.8
kVA Total					3508.0		6657.3		9897.2

The Hydro One rural section of feeder 2 was also modeled so that the impact of this additional load on the main feeder 2 circuit conductors could be considered in our analysis. The Hydro One loads in the Alfred system, both feeders 1 and 2, also had to be estimated for the purposes of providing proper assessment of the loading on the 7.5MVA substation transformer, and a determination as to whether the transformer will be adequate to support future anticipated load growth. Thus, similar nominal, summer, and winter models were constructed for feeder 1, which supports exclusively Hydro One customers, and Hydro One's portion of the feeder 2 network, which is shared with Hydro 2000, as indicated in the table. Winter peak loading conditions for feeder 1, and Hydro One's portion of feeder 2, extending north on



County Rd. #15 were approximated using the following measurements recorded in February of 2005, during peak loading conditions. Peak demand for the entire network was recorded at 7,870 kW (or 8,744 kVA), and 4,200 kW (or 4,666.7 kVA) of this demand was attributed to Hydro One customers. Peak loading on feeder 2, including both Hydro One and Hydro 2000 customers, was 2,400 kVA. While the peak loading of the total network and the peak loading of feeder 2 did not necessarily occur at the same time, the peaks were assumed to be concurrent to simplify the calculations. The peak demand recorded for Hydro 2000 for feeders 2 and 3 in February 2005 was also assumed to coincide with this peak overall substation loading. All of these figures were used together to approximate the peak winter loading levels for the Hydro One portions of the distribution network, from which peak summer and nominal loading conditions were then derived.

As can be seen, the kVA peaks for all feeders are significantly higher in winter, indicative of substantial electrical baseboard heating in older residential neighbourhoods. The total winter peak demand is shown in the table to be 9,897 kVA; it should be noted, however, that this figure is conservative in that it represents the case where the peaks on each feeder within the network, and the peaks in Hydro 2000 and Hydro One loading will be concurrent but, in reality, there will be some degree of diversity. As mentioned previously, the peak demand for the entire system was 7,870 kW (or 8,744 kVA), recorded in February of 2005, about 11% lower than the winter peak total calculated in the table above. During the winter months, the 7.5MVA transformer should be able to provide for some overloading due to reduced ambient temperatures. That being said, while the peak load may exceed the nameplate rating of the transformer, it should be within its capabilities to service it for a short period of time since the heaviest loading periods are expected in the winter.

FEEDER VOLTAGES UNDER NORMAL OPERATION

As per CAN3-C235-83 'Preferred Voltage Levels for AC Systems, 0 to 50 000V' all service entrance voltages should be no less than 91.7% of nominal (110V) and no higher than 104.2% of nominal (125V) during normal operating conditions. During extreme operating conditions the voltages may fall to 88.3% (106V) or rise to 105.8% (127V) of nominal. Feeders 2 and 3 were simulated under nominal, summer peak and winter peak loading conditions to identify any present voltage support issues within the network. The results are summarized below and the corresponding voltage profile maps can be seen on the relevant graphs under Appendix 2.

Feeder 2, when subjected to combined Hydro 2000 and Hydro One nominal loading of 923.1 kVA, experienced a minimum feeder voltage of 99% of nominal. Under summer peak loading of 1,867.5 kVA and winter peak loading of 2,811.6 kVA, worst-case voltages were 97.9% and 96.9% of nominal, respectively. All feeder 2 voltages were within the acceptable range.

For feeder 3, with nominal loading of 1,367.7 kVA, the minimum voltage was 97.8% of nominal. At summer peak loads of 2,327.1 kVA, the worst case feeder voltage was 96.3% of nominal. At peak winter loading of 3,377.8 kVA the worst case feeder voltage was 94.4%. For all cases, the worst-case voltages within the feeder 3 network were within the acceptable range.



SYSTEM LOSSES

With feeder 2's nominal system loading estimated at 923.1 kVA, 608.6 kVA (or 547.7 kW) of this base load is attributable to the Hydro 2000 portion of the network. Distribution losses incurred on the Hydro 2000 portion of the feeder total 3.8 kW, approximately 0.69% of the Hydro 2000 load. The Hydro 2000 component of the peak summer loading on feeder 2 is 1231.2 kVA (or 1108.1 kW) with 16.2 kW or 1.46% in losses. At peak winter loading of 1853.6 kVA (or 1668.2 kW), losses total 37.4 kW, or 2.24% of the feeder 2 Hydro 2000 component of the peak winter load.

For feeder 3, the dedicated Hydro 2000 feeder, under nominal loading of 1,367.7 kVA (or 1230.9 kW), the losses were calculated to be 14.3 kW, 1.16% of the load. During summer peak loading of 2,327.1 kVA (or 2094.4 kW), losses were 43.1 kW, 2.06% of the system load, and at peak winter loading of 3,377.8 kVA (or 3040.0 kW), losses were 93.4 kW, or 3.07 %.

There were some unbalanced currents as shown on the following table. For feeder 2, in particular, the spot measurements indicate a very significant imbalance among the phases. Transferring load to balance the currents will reduce energy losses, as return currents travel through undersized neutrals and the overall inductance of the line is higher. Optimizing the balance between the phases of a distribution network typically improves the voltage support within the system as well. The system will be able to sustain heavier loading before one of the phases is burdened to the extent that its voltages begin to drop below 91.7% of nominal levels.

Feeder	Phase	Amps- Measured	Avg.	Unb. (%)	Preferred Rephasing	Final	Avg. (%)
Feeder 2	R	50			-7	43	
(Hydro 2000	W	44	42.7	20.3	-1	43	1.6
portion only)	В	34			8	42	
Feeder 3	R	90			0	90	
	W	86	90.7	5.9	5	91	0.7
	В	96			-5	91	

Possible options to rebalance the feeders include the following:

- 1. F2: 54-75 R to B (Telegraph & Dumoulin Street)
- 2. F2: 76-75 W to B (Dumoulin Street)
- 3. F3: 44-75, B to W (Bolt Rd., between St. Joseph & Chatelaine)

If these changes are implemented, the system main feeders should be measured before the changes are implemented to re-verify the imbalance, and then the rebalancing changes should be done.

During peak winter loading, total Hydro 2000 losses for feeders 2 and 3 are expected to be reduced from 130.8 kW to 130.0 kW, resulting in only minor savings of 0.8 kW. Analyzing the proposed rebalanced system under typical loading conditions, the losses are 17.9 kW, as compared to the 18.1 kW losses observed in the original system. Assuming costs of \$0.10/kWhr, these changes could result in an estimated annual savings of \$175. Although the cost to transfer these loads will likely outweigh the energy savings due to the small reduction in losses, this rebalanced system shall be used as the new default system for all further studies. If the phase re-balancing is done in conjunction with other system



changes, the reduction in system losses and the resultant cost savings should be more significant. The expansion of the distribution system to provide service to the new subdivisions may help to correct the phase imbalance on feeder 3. When the new subdivisions are added, the loading should be distributed among the phases with the present imbalance in mind.

For example, there is only a single-phase circuit running along Landriault St., in the area of one of the proposed subdivisions. This happens to be the white phase of the F3 circuit, which is currently supporting the smallest load as per the spot measurements. If the entire subdivision is serviced by the white phase, and the white phase is also used to partially service the other subdivisions, this will help to more evenly distribute the load among the phases, reducing the proportion of stress on the blue phase conductors. It is recommended that the service requirements for the new developments be allocated to circuit phases in the following approximate proportions:

Red Phase: 33% White Phase: 50% Blue Phase: 16.7%

This means that for every single-phase transformer that is added to the circuit on the blue phase, two transformers of approximately equal size and loading should be added on the red phase, and three should be added on the white phase. Note that this recommendation is based on an anticipated increase in nominal load by 375 kW (414 kVA), as a result of the new subdivisions. If the actual nominal load is determined to be sufficiently greater than as estimated, then the three phases share in servicing the new loads in more equal proportions; if the load is significantly smaller, then more than half of the new load should be allocated to the white phase, and less to the others. The proportions given should be used as a guideline only and new measurements should be taken to confirm the imbalance between the phases at the time of additions to determine the optimal phasing arrangement.

SYSTEM UPGRADES TO MINIMIZE LOSSES AND SUPPORT VOLTAGE

A significant factor impacting system losses is the conductor sizes, especially in the main sections of each feeder supplying the bulk of the power. Studying the balanced system, losses of 9.3 kW are incurred in the feeder 3 system along the main line between the substation and Fournier Street. This amounts to approximately 65% of the total losses for that feeder. For feeder 2, more than 80% of the losses are incurred in the same section of line. Losses are expected to be greater in these sections due to the length of the lines but can be reduced considerably by replacing the ACSR 3/0 AWG conductors with larger 336kcmil conductors. This will also improve the voltage support throughout the distribution system.

Analyzing the system under peak winter loading conditions with the 336kcmil ACSR conductors running from the substation to Fournier St. for both feeders 2 and 3, the losses were 21.2 kW for feeder 2 and 61.3 kW for feeder 3 for a total of 82.5 kW, or 1.75% of the total Hydro 2000 load. Recall that the losses calculated for the rebalanced system with the original ACSR 3/0 AWG conductors subjected to the same loading conditions were 130 kW, or 2.76% of the load. Under typical loading conditions (the rebalanced base model) the resultant losses were 2.0 kW for feeder 2 and 8.9 kW for feeder 3, totalling 10.9 kW, or 0.61% of the load. If we assume that the average kWHr use of this system is about 17,500,000 kWHr, the actual average losses of 17.9kW are reduced by 39%, and assuming costs of \$0.10/kWHr, this change results in annual savings of \$6,132. Please note, the cost for this upgrade would be approximately \$44,000, resulting in a payback of about 12.6 years, and would not be a cost effective use



of capital. Also, while this upgrade will reduce losses, the change may not increase capacity, as the line switches and metering unit may still be a limiting factor on the circuit.

Reconductoring the remainder of the main line sections for F2 and F3 will reduce the losses further, and result in more savings. Under nominal loading, the losses with the main 3/0 feeder sections for both F2 and F3 replaced in their entirety with 336kcmil conductors are estimated at 1.8 kW for feeder 2, and 8 kW for feeder 3, totalling 9.8 kW. This will result in an additional annual savings of \$963. However, the cost and effort to replace all of the primary lines on Philip and Telegraph St. would be prohibitive and would not be worth these additional savings.

The possibility of moving the substation to the end of Dumoulin Street would also be an opportunity to reduce system losses. Assuming the transformer is sized similarly to the one existing, and the new main cables along the length of Dumoulin Street are 336 kcmil, the system losses are reduced to 16.3 kW for feeder 2 and 33.8 kW for feeder 3, for a total of 50.1 kW under peak winter loading conditions, approximately 39% of the losses calculated for the present system with the rebalancing changes implemented. Under nominal loading conditions, the losses are reduced to 1.6 kW for feeder 2 and 5.1 kW for feeder 3, for a total of 6.7 kW. This results in annual savings of \$9,811 over the rebalanced base case.

FEEDER LOADING UNDER NORMAL CONDITIONS

To evaluate all the feeders under current nominal and current peak loading conditions, we evaluated each feeder by their limiting factor, which for both was the main 3/0 ACSR run from the substation. For feeder 2, both the Hydro 2000 and the estimated Hydro One rural portion of the loading were considered in the evaluation. As can be seen, all the feeders are sized acceptably for normal conditions.

			Nomin	al		Summ	er	Winter			
Feeder	Phase			Feeder Limits	Amps	Pass/Fail	Feeder Limits	Amps	Pass/Fail		
Feeder 2	R	419	72.24	17.24%	370	146.14	39.50%	419	217.38	51.88%	
	W	419	66.14	15.79%	370	133.80	36.16%	419	199.27	47.56%	
	В	419	32.10	7.66%	370	109.12	29.49%	419	169.11	40.36%	
Feeder 3	R	419	93.33	22.27%	370	158.80	42.92%	419	230.50	55.01%	
	W	419	87.74	20.94%	370	149.29	40.35%	419	216.70	51.72%	
	В	419	103.86	24.79%	370	176.72	47.76%	419	256.51	61.22%	

The ratings of the solid blade switches located just past the tie switch on County Rd. #17 for feeders 2 and 3 could not be determined with the documentation provided. The solid blade switches for the F2 feeder circuit are not expected to experience overloading, provided they are rated for 200 amps (summer duty), as they are only subjected to the Hydro 2000 component of the load, which is a maximum of 150.9 amps (on the red phase for peak winter conditions). It should be noted however, that if the switches for the F3 circuit are rated for 200A or less, they will be overdutied during winter peak loading conditions by almost 30% However, using their winter duty factor of 1.25 of nominal due to the lower ambient temperature, the overload is significantly smaller at 1.03%. Implementation of the proposed rebalancing changes should further reduce the stress on the switch of the heaviest loaded blue phase so none of the switches will be overdutied.



Fused switches, AS-2 and AS-4, both on Telegraph St. on the F3 feeder circuit may be slightly overdutied at times during peak winter loading if they are rated for 200A or less. With the addition of the new subdivision off Landriault St., and natural load growth, the stress on the switches will become more severe. It is recommended that the size of the switches and fusing be confirmed and the switches upgraded to 300A units with appropriate fusing.

FEEDER CONFIGURATIONS UNDER EXISTING LOADING AND EMERGENCY CONDITIONS

The main scenario evaluated in this section is the loss of either feeder F2 or F3, assuming the tie switch will be usable. If either F2 or F3 is lost at some point between the tie switch and the substation, closing the tie switch will allow the entire load to be serviced from the remaining feeder. During such emergency operating conditions, voltage levels are permitted to drop as low as 88.3% of nominal. The distribution system, given the loss of either feeder, is evaluated under both peak summer and winter conditions to ensure that voltage levels are acceptable and equipment is not severely stressed.

Under peak summer loading conditions, there are no voltage support issues and none of the main conductors from the substation to the tie switch, supporting the extra burden, are overloaded. The minimum voltage is 95.2% of nominal, which is well within the acceptable range, and the blue phase conductor of the main 3/0 ACSR feeder section, which is the most heavily loaded, is carrying 83.1% of its rated (summer) current.

Subjected to peak winter loading conditions, voltage support is still not a concern, as the worst-case voltage at 92.3% of nominal. Feeder voltages will reach this minimum in the area of Johnston and Butterfield streets. The main conductors running along Peat Moss Rd. from the substation are more stressed, the blue phase conductor loaded at 110.5% of its winter current-carrying capacity. The conductors should be able to support this additional load for a short period of time.

However, one limitation is that both the F2 and F3 circuits have single-phase reclosers at the substation with 280A trip coils. The recloser on each circuit will prevent one feeder from supporting the entire load during peak winter conditions. During this single feeder emergency condition, the highest current expected to flow through the recloser during peak summer loading conditions is 301 amps, and the maximum current during winter peak loading is 463 amps. The circuit reclosers will be the limiting factor in providing emergency service in the event that one of the feeders is lost.

LOAD GROWTH

There are a number of methods by which a utility's load will grow over time; the typical ones are listed below, with the trending graphs following:

- New in-fill customers are added within the Utility boundary.
- Existing customers add load (pool pumps, new air conditioners, etc.).
- Expansion of the Utility boundaries.

As there are no known plans for expansion of the Utility boundary, the main changes in loading to be expected in the coming years will be as a result of the first two factors listed above. To predict the growth for the system, we first evaluate future known growth.



There are a few new subdivisions currently in the planning and/or development stages in areas currently serviced by feeder 3. The subdivision currently being added is in the Richard & Pitre area, with a possible future infill subdivision in the Landriault area, and a future potential addition north of the Alexandre area. To estimate the additional loading that will result, we have estimated that each subdivision will contain the equivalent to 25 houses. Assuming a nominal load of 5 kW per house at 0.9 power factor, this will result in 125 kW, or 138 kVA per subdivision, for a total of 375 kW, or 417 kVA. For forecasting purposes, we have assumed the first subdivision will be added this year, the second in two year, the third in four years. This loading is added to the nominal, summer, and winter peak loading. The forecast can be adjusted as required to account for differences between the projected development and that which will actually take place using the approximation of 5 kW per house used herein.

The second factor, or annual load growth, is typically assumed at around 3%. This is due to the natural addition of new electrical loads such as air conditioning systems, pools, electronic devices, and other energy consuming products. This is often balanced by a decline in loading for the majority of the winter months, probably due to increased energy efficiency and transitioning from baseboard heating to forced air. The natural load growth may also be substantially affected by the proposal to bring in smart metering. This should offset the peak loading to non peak-load times and thus reduce the overall peak demand, and is estimated by the government to bring about a 5% reduction when implemented. Therefore, our load growth estimates should be conservative.

In the forecast for feeder 2, both the Hydro 2000 and Hydro One components of the loading have been taken into consideration and assumed to grow at the same rate of 3% annually. The load growth on the Hydro One feeder (feeder 1) was also approximated at 3% per year as shown in the third table below.

The forecasts for all three feeders were combined so that the anticipated future loading levels of the 7.5 MVA Hydro One substation transformer could be assessed, as shown in the final table below. A 10% diversity factor was applied to account for non-concurrent peaks in the loading of the feeders. Levels indicative of heavy loading (in excess of 90% of the applicable transformer rating) are highlighted in orange, and cases where the loading is expected to exceed the capabilities of the transformer are shown in red.

Nominal and summer peak loading levels were compared against the nameplate rating (7.5MVA) of the Hydro One substation transformer. Although there is no fan rating on the nameplate of the existing transformer, only the 7.5MVA rating is shown, we evaluated winter peak loading assuming that the transformer can provide up to 10MVA of loading, 33% higher than its nominal rating. It is expected that the transformer will be able to provide for some overloading during lower ambient temperatures provided by the winter months, but there is no guarantee that 10MVA can be supported. The documentation provided upon purchase of the transformer should provide some indication as to its overload capabilities; Hydro One should have the information necessary to evaluate the transformer's ability to provide for the anticipated loading and determine when/if it will require replacement.

FEEDER 2 - DEMAND FORECAST (in kW)

kW Demand	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nominal	782	806	831	856	881	908	935	963	992	1,022	1,052	1,084	1,117
Summer Peak	1,108	1,095	1,681	1,731	1,783	1,837	1,892	1,948	2,007	2,067	2,129	2,193	2,259
Winter Peak	1,653	1,668	2,530	2,606	2,685	2,765	2,848	2,933	3,021	3,112	3,205	3,302	3,401



FEEDER 3 - DEMAND FORECAST (in kW)

kW Demand	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nominal	1,158	1,194	1,231	1,393	1,435	1,603	1,651	1,825	1,880	1,937	1,995	2,054	2,116
Summer Peak	2,094	2,053	2,094	2,282	2,350	2,546	2,622	2,826	2,911	2,998	3,088	3,180	3,276
Winter Peak	2,846	3,040	3,040	3,256	3,354	3,580	3,687	3,922	4,040	4,161	4,286	4,415	4,547

FEEDER 1 (HYDRO ONE) - DEMAND FORECAST (in kW)

kW Demand	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nominal	1,031	1,063	1,095	1,128	1,162	1,197	1,233	1,270	1,308	1,347	1,388	1,429	1,472
Summer Peak	1,108	1,095	2,216	2,283	2,351	2,422	2,495	2,569	2,647	2,726	2,808	2,892	2,979
Winter Peak	1,653	1,668	3,337	3,437	3,540	3,646	3,756	3,869	3,985	4,104	4,227	4,354	4,485

TOTAL SUBSTATION DEMAND FORECAST - INCLUDING 10% DIVERSITY FACTOR (in kVA)

kVA Demand	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nominal	2,695	2,778	2,864	3,075	3,167	3,387	3,489	3,719	3,830	3,945	4,064	4,185	4,311
Summer Peak	4,310	4,243	5,418	5,706	5,877	6,178	6,364	6,680	6,880	7,087	7,299	7,518	7,744
Winter Peak	6,152	6,376	8,045	8,411	8,664	9,049	9,320	9,725	10,016	10,317	10,626	10,945	11,274

The peak summer load total for all feeders in 2015 is estimated at 7,744 kVA, exceeding the capabilities of the existing transformer by 3.3%. Total peak winter loading in 2015 is expected to be 11,274 kVA, exceeding the estimated fan rating of the transformer by 12.7%. This indicates that, given the accuracy of the forecast, the 7.5MVA transformer will require upgrading before the year 2015. In fact, an upgrade is expected to be required around the year 2010. The existing transformer is expected to be adequate to support the future load growth until that time under normal conditions. The loading should be reviewed in the coming years to ensure that the capacity is acceptable, especially if further developments and/or significant changes to the distribution network are undertaken that have not been considered in this forecast.

The summer peak loading in 2015 was simulated and the worst-case system voltage for feeder 2 was 97.75%, well within the acceptable range; distribution losses are responsible for approximately 28.8 kW or 1.93% of system loading. Analyzing the feeder 2 network under the peak winter loading conditions expected in 2015, the worst-case voltage drop is 95.7% of nominal, which is acceptable, and the distribution losses total 72.8 kW, approximately 3.25% of the load. Note that only the Hydro 2000 portion of the load and the distribution losses are considered in the figures provided. Hydro One's loading and losses are only considered to evaluate the loading on the main circuit conductors running along Peat Moss Rd. and to evaluate the loading on the substation transformer. Voltage support and overloading are not expected to be issues of concern in the feeder 2 network under normal (peak summer and winter) loading conditions expected through the year 2015.

The worst-case voltage within the feeder 3 circuit under the peak summer loading conditions projected for 2015 was within the acceptable range at 93.08% and was found on the white phase conductor in the area



to feed the proposed new subdivision off Landriault St. Feeder 3 losses under peak summer loading were determined to be 110 kW, about 3.36% of the total feeder 3 load. Under peak winter loading conditions, system voltages on the white phase conductor are expected to fall outside the acceptable range in a large area, as indicated by the voltage support results under Appendix 2. The worst-case voltage in the network, found in the area of the new subdivision off Landriault St., is 90% of nominal. All unacceptable voltages within the network are restored to acceptable levels by applying a 2.5% tap boost to the 7.5 MVA substation transformer.

In order to determine whether or not the main circuit conductors for both feeders in the distribution system will be able to handle peak summer and winter loading, the additional load expected must be allocated to each phase. These conductor ampacities are evaluated against expected loads from 2005 through 2015 based on the assumption that the feeders will be perfectly balanced. This represents the best-case scenario. Cases in which the conductor is carrying more than 90% rated current are flagged in orange.

		Detect			Year &	& Amps	Per Pha	se (Bala	nced Sy	stem)		
Feeder	Season	Rated Amps	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Win	419	200.9	207.0	213.2	219.6	226.1	232.9	239.9	247.1	254.5	262.2
F2	Sum	370	133.5	137.5	141.6	145.9	150.3	154.8	159.4	164.2	169.1	174.2
12	Winter (kV	V)	2605.9	2684.1	2764.6	2847.5	2933.0	3021.0	3111.6	3204.9	3301.1	3400.1
	Summer (kW)	1731.4	1783.4	1836.9	1892.0	1948.7	2007.2	2067.4	2129.4	2193.3	2259.1
	Win	419	251.1	258.6	276.0	284.3	302.4	311.5	320.9	330.5	340.4	350.6
F3	Sum	370	175.9	181.2	196.3	202.2	217.9	224.4	231.1	238.1	245.2	252.6
7.5	Winter (kV	V)	3256.2	3353.9	3579.5	3686.9	3922.5	4040.2	4161.4	4286.2	4414.8	4547.2
	Summer (kW)	2281.8	2350.3	2545.8	2622.2	2825.8	2910.6	2997.9	3087.9	3180.5	3275.9

As can be seen, the main 3/0 ACSR conductors are not expected to experience overloading, or even loading in excess of 90%, during either winter and summer peak conditions through 2015. The heaviest loading is expected on the main feeder 3 circuit conductors running along Peat Moss Rd. and Telegraph St. which are expected to be loaded at 83.7% of rated (winter) ampacity. As indicated in the table, the main 3/0 ACSR conductors are expected to carry 350.6 amps on each phase. While this level of loading is not of concern, it assumes a perfectly balanced distribution of loading between the phases. Any significant imbalance between the phases may cause the most heavily loaded phase conductor to experience overloading at times. As loads are added to the network as a result of the new developments, the loading on each of the phases of the feeder should be measured frequently to ensure they are reasonably balanced, and loads should be transferred as necessary.

Earlier in this report, it was suggested that loading be transferred from the blue to the white phase on Bolt Rd. between St. Joseph & Chatelaine to correct the present imbalance between the phases. Since only the white phase is present in the area of the proposed subdivision off Landriault, it is assumed that the entire new subdivision will be supplied from this phase. It is expected that this will serve to correct the imbalance between the phases without the need to relocate the transformer on Bolt Rd. to the white phase. In fact, transferring this load back to the blue phase, in our analysis, lead to slightly better voltage support results and more balanced loading between phase conductors within the network. Therefore,



transferring loads is not necessary and not recommended at this time, provided the addition of loading will occur in the near future and is allocated to the phases appropriately to correct the problem. The remaining analyses within the study, and the corresponding voltage support and loading results in the appendices, reflect the phasing presently in place for feeder 3. The rebalancing changes recommended for feeder 2 remain, however.

SYSTEM LOADING UNDER EMERGENCY CONDITIONS

The scenario evaluated in this section is the same as the emergency loading situation evaluated earlier in the study, except for, this time, one feeder is subjected to projected peak summer and winter loading in 2015. In the event of a loss of either F2 or F3 between the substation and the tie switch, the tie switch shall be closed and the entire Alfred load serviced by one feeder. Under peak summer loading conditions in 2015, the worst-case system voltage is 91.5% of nominal, which is within the acceptable range for emergency loading conditions. Subjected to peak winter loading, the worst-case voltage is 87.2%, and the voltages are expected to be outside the acceptable range for emergency conditions in feeder sections south of the intersection of St. Phillipe & Laniel. Voltage also falls just outside acceptable range at the intersection of Bolt Rd. & Chatelaine, the feed to the pharmacy. However, an application of a 2.5% tap boost to the substation transformer is expected to restore the worst-case voltage within the network to 90.1% of nominal, which is within the suitable range for emergency situations. Thus, voltage support under emergency situations is not expected to be an issue in the future.

As indicated by the loading results figures included in Appendix 3, the main 3/0 ACSR conductors are expected to be severely overloaded if a feeder is lost in 2015 under peak summer or winter loading conditions. The figures show that loading is in excess of 125% of the conductors' rated ampacity in some cases. These figures represent the worst-case scenario, however, being that the seasonal peaks on both feeders are concurrent, which is extremely unlikely. In the table below, the conductors are evaluated under peak winter and summer loading with a 10% diversity factor applied to account for different peak loading times for each feeder. Cases in which the conductors are expected to be heavily loaded, at more than 90% of their applicable rating, are coloured in orange. Scenarios in which the conductors are expected to be overloaded are shown in red.

		Rated				Ye	ar & Amp	s Per Pha	se			
Feeder	Season	Amps	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Win	419	406.79	418.99	440.24	453.44	475.72	489.99	504.69	519.83	535.43	551.49
F2 or F3	Sum	370	278.49	286.85	304.13	313.25	331.32	341.26	351.50	362.04	372.91	384.09
F2 01 F3	Winter	r (kW)	5,862	6,038	6,344	6,534	6,855	7,061	7,273	7,491	7,716	7,947
	Summe	er (kW)	4,013	4.134	4,383	4.514	4.775	4,918	5.065	5.217	5.374	5,535

As can be seen from the table, the ability for either feeder to support the entire load given an emergency situation will eventually become constrained by the main 3/0 ACSR conductors (and by the reclosers ampacities). In fact, the conductors are expected to be already heavily loaded under peak winter loading conditions. Replacing these conductors with larger conductors, and upgrading the reclosers would alleviate this problem, making each feeder reasonably equipped to support the entire system load temporarily in the event that one of the feeders is lost.



SUBSTATION REDUNDANCY

The issue of redundancy is problematic for the Alfred distribution system, although it is not the responsibility of Hydro 2000. Currently, the entire village is serviced by a single transformer, the failure of the transformer will result in a complete outage until Hydro One can repair or replace their transformer. Typically, Hydro One will either repair the fault on site, or install a mobile unit as soon as possible. Hydro One will probably not install a redundant transformer till required by load growth.

The possibility exists for Hydro 2000 to build their own substation, which may result in substantial savings as per the Hydro One DS charges, which are \$1.60/kW. This sum totalled \$53,385 in 2004. Including the reduction of losses of about \$9,028 gives a total of \$62,413 saved annually. Typically, a 7.5MVA substation could be build for about \$500,000, resulting in a payback of about 9.4 years. Please note, there may be additional complication through Hydro One additional charges, stranded costs, and other difficulties negotiating this arrangement. Metering would also be an additional cost as they may require Hydro 2000 to implement primary metering at the 44,000V level, which can add a further \$75,000 for the metering can and installation.

The feeders for Alfred are currently already redundant through the tie switch in the event of a failure of one of the feeders, as discussed in the previous section.



PLANTAGENET ELECTRICAL DISTRIBUTION SYSTEM

SYSTEM EQUIPMENT RATINGS

The main equipment within the Hydro One Plantagenet substation is listed below, along with the ratings that are used to evaluate these components for various loading scenarios. Ratings and information that could not be verified were estimated for the purposes of the study and are marked in table with an asterisk (*).

System Component	Rating	Ampacity @ 8.32kV
44kV Primary Switch	Continuous Amps	3173A (600A)
44kV Primary Fuses	Continuous Amps	761.5A (144A)
S&C Electric SMD-1A, 125E	Daily 8 hour peak	772.1A (146A)
Standard Speed, TCC 153-1	Emergency 8 hour peak	835.6A (158A)
44,000/8,320V Transformer	Continuous Amps	347A (65.6A)
Delta/Wye (Grnd.), 5 MVA (ONAN)		
*Z = 5.5%		
8.32kV Secondary Switchgear	Continuous Amps	*600A
8.32kV Hydraulic Oil Circuit Reclosers	Continuous Amps	200A
Cooper Type 'L'		

The impedance is not marked on the nameplate of the 5 MVA substation transformer, nor could the manufacturer provide it. Based on the size and type of the transformer, a typical impedance value was estimated at 5.5%; this value was used for the purposes of this study.

The size of the switches in the system, and their fuse sizes, where applicable, could not be confirmed. The ratings of most feeder level switches within this system were estimated as 100 or 200 Amps, based on the cable size they were connected to. Most aggregated backbone switches are solid-blade type and their ratings were estimated at 300 Amps, based on the cable size they were connected to. These conservative values will allow us to ensure that all normal and emergency situations which may be above that level are flagged properly. Typically winter ratings of these switches are at least 25% higher than summer ratings due to the lower ambient temperature, and are rated that way within this study. It would be beneficial to confirm and add all switch and fuse ampacities to the system utility diagram at some point in the future.

SYSTEM LOADING UNDER NORMAL OPERATION

The loading of the Hydro 2000 Plantagenet feeder was measured in mid January, 2003 and again in late October, 2005, on the same days as the Alfred feeder measurements were taken. Current measurements on each phase were used to determine the total power demand in the system to be 984 kVA. Using current measurements made at strategic points, this total load was allocated to the various distribution transformers as determined from the drawing of the Plantagenet distribution system and the base model for our study was constructed.

The proportion of the total power attributed to each phase in the base case, and the Hydro 2000 demand figures, in kilowatts, recorded from January 2003 to July 2005 were used to construct a model to simulate



the circuit under peak summer and peak winter loading conditions. The peak summer and winter demands are estimated as 2007.5 kVA and 2992.0 kVA, respectively, based on a power factor of 90%. The loading levels for the base, peak summer, and peak winter cases are summarized in the table below.

Feeder	Phase	Amps- Measured	kVA - Measured	Peak Amps Summer	Peak kVA - Summer	Peak Amps Winter	Peak kVA - Winter
	R	90	432.0	183.6	881.3	273.7	1313.6
PInt Fdr	W	55	264.0	112.2	538.6	167.2	802.7
	В	60	288.0	122.4	587.6	182.4	875.7
		kVA Total:	984.0		2007.5		2992.0

As can be seen, the kVA peaks are significantly higher in winter, as expected, and as was the case with the Alfred system. All loading levels are within the capability of the existing station 44/8.32kV 5MVA transformer, but the transformer supports a Hydro One feeder as well.

As there is no data available for the Hydro One Plantagenet feeder, for the purposes of this study, it is estimated that the loading exhibited on that feeder will be similar to that observed for the Hydro 2000 feeder. If the nominal loading on the Hydro One feeder is 1,000 kVA, the peak summer loading is 2,040 kVA, and the winter peak loading is 3,040 kVA, the transformer loading is estimated at 1,984 kVA under nominal conditions, 4,047.5 kVA under summer peak loading conditions, and 6,032 kVA under winter peak loading conditions (assuming the peaks of each feeder occur at the same time). If these estimates are accurate, the 5MVA substation transformer will be loaded at 21% beyond its nameplate rating during peak winter loading conditions. However, it is not expected that the Hydro One and Hydro 2000 will reach peak loading levels at the same time, and the transformer should be able to provide for some overloading when the ambient temperature is lower in the winter months. Thus the nominal and summer peak loading conditions expected are within the capabilities of the transformer. Therefore, the transformer currently servicing Plantagenet should be adequately sized to handle the present normal loading conditions.

FEEDER VOLTAGES UNDER NORMAL OPERATION

As per CAN3-C235-83 'Preferred Voltage Levels for AC Systems, 0 to 50 000V' all service entrance voltages should be no less than 91.7% of nominal (110V) and no higher than 104.2% of nominal (125V) during normal operating conditions. During extreme operating conditions the voltages may fall to 88.3% (106V) or rise to 105.8% (127V) of nominal.

Running at the base load of 984 kVA, the worst-case feeder voltage is within 97.3% of nominal, which is acceptable and, at summer peak loads of 2007.5 kVA, the worst-case feeder voltage is 94.4% of nominal, which is also acceptable. Subjected to winter peak loading of 2992 kVA, however, the system voltages are outside the acceptable range in all feeder sections north of the intersection of Main St. and County Rd. No. 9 with the worst-case feeder voltage at 91.4% of nominal. The voltage profile maps can be seen on the relevant graphs under Appendix 2. If the transformer tap is set to provide a voltage 2.5% above nominal 8.32 kV, the worst-case voltage at peak winter loading will be 93.6%, within the acceptable voltage range.



SYSTEM LOSSES

With the existing nominal system loading of 984 kVA (losses inclusive), distribution losses total 9.5 kW and, approximately 1.07% of system loading. At peak summer loading of 2007.5 kVA, losses total 42.4 kW, approximately 2.32% of system loading. At peak winter loading of 2992 kVA (losses inclusive), losses total 98.2 kW, or 3.65% of system loading.

The spot measurements show that the red phase is much more heavily loaded than the white and blue phases. Balancing the phases results in less current flow in the system neutral conductors, reducing system losses. Voltage support in the feeder network should also be improved through correction of the imbalance. The imbalance between the phases and the preferred re-phasing is shown in the table below.

Feeder	Phase	Amps- Measured	Avg.	Unb. (%)	Preferred Rephasing	Final	Avg. (%)
	R	90			-22	68	
PInt Feeder	W	55	68.3	31.7	13	68	-1.0
	В	60			9	69	

Possible options to rebalance include the following:

1. Main St. (between Concession & Ottawa): 20-100 R to B

2. Water St. (between L'Eglise & Concession): 13-75 R to W

3. Main St. & Concession St.: 18-50 R to W

When the rebalancing will take place, the system main feeders should be measured to re-verify the imbalance and then the rebalancing changes should be done.

With the proposed rebalanced system, under nominal loading conditions, the losses are reduced to 9 kW and 1.02% of the nominal load. This is an improvement over the unbalanced case by 0.5 kW. Assuming nominal loading on average over the year, and energy costs of \$0.10/kWhr, balancing the system as suggested should result in approximately \$438 annual savings, which is not significant. However, under heavier loading conditions, the reduction in losses and hence the savings will be more significant. This rebalanced system shall be used as the new default system for all further studies.

FEEDER LOADING UNDER NORMAL CONDITIONS

The loading of the main 3/0 ASCR run in the Plantagenet feeder circuit is summarized in the table below under nominal, peak summer, and peak winter loading conditions.

			Nomina	al		Summe	er		Winter	
Feeder	Phase	Feeder Limits	Amps	Pass/Fail	Feeder Limits	Amps	Pass/Fail	Feeder Limits	Amps	Pass/Fail
	R	419	90.0	21.5%	370.0	183.6	49.6%	419	273.7	65.3%
Plnt. Fdr	W	419	55.0	13.1%	370.0	112.2	30.3%	419	167.2	39.9%
	В	419	60.0	14.3%	370.0	122.4	33.1%	419	182.4	43.5%

The conductors do not experience heavy loading under any of the simulated loading conditions. However, the circuit recloser is equipped with a 200A trip coil and so there is risk of it opening during



heavy winter loading because of the unbalanced Red phase, although Hydro One practice permits a maximum anticipated load of up to 250 Amps through this recloser. However, if load is redistributed to better balance the phases, as suggested previously, then the likelihood of the recloser operating will be reduced. Replacement of the trip coil with one rated for 280 amps could also be done to further reduce the likelihood of recloser operation during heavy loading and to provide for future load growth.

FEEDER CONFIGURATIONS UNDER EXISTING LOADING AND EMERGENCY CONDITIONS

There is no agreement currently in place between Hydro One and Hydro 2000 to provide emergency service for another in the event that there is a failure with one of the feeders. Such an agreement would be advisable, provided that each network has sufficient capacity to support the entire Plantagenet load, as it would provide for some redundancy in the system. In order to determine whether or not either feeder is equipped to service the entire load, we constructed a model of the Hydro One feeder and connected it to our existing model of the Hydro 2000 feeder. To simulate the situation in which either the feeder out of service and the entire load must be supported by the remaining feeder, the following assumptions were made:

- We estimated nominal loading at 1000 kVA (similar to the main Plantagenet feeder), completely balanced, and distributed evenly across the major lines throughout the feeder circuit.
- A switch connecting the Hydro One and Hydro 2000 feeder circuits has been placed along Old Highway 17, near its intersection with County Rd. 9 so the switch may be closed, and the two networks connected under emergency conditions.
- The routing of the Hydro One feeder is not shown completely on the electrical distribution drawing of Plantagenet, so the routing of the feeder was approximated as necessary.
- 4. The conductors for the main run of the Hydro One feeder circuit were assumed to be 3/0 ACSR.

Simulations were performed during which the entire Plantagenet load was serviced by the Hydro One circuit under summer and winter peak loading conditions. Under emergency loading conditions, system voltages as low as 88.3% of nominal are tolerable.

Subjected to peak summer loading, the lowest system voltage was 92.25% of nominal, which is well within the acceptable range. The most heavily loaded circuit conductors in the network are loaded to less than 80% of their rated ampacity at 30 degrees Celsius, provided our assumption that the main runs are 3/0 ACSR is correct. Therefore, given the validity of the assumptions made in constructing our model, the Hydro One feeder should be capable of supporting the Hydro 2000 circuit load under peak summer conditions (and vice versa) with no loading concerns or voltage support issues, provided that any switches or reclosers in the main portion of either feeder circuit are rated for 300 amps (at 30 degrees Celsius).

Simulating under peak winter loading conditions, however, there were some issues with regards to both voltage support and loading. For a very large portion of the circuit, the system voltage is between 88.3% and 90% of nominal, just above the minimum acceptable voltage level. Between the public school and the substation, the voltage is expected to be slightly outside the acceptable range for extreme operating conditions, dropping as low as 87.75% of nominal. Note that these regions of low voltage correspond to the case where the Hydro One feeder is supporting the entire load. If the Hydro 2000 feeder were to support the entire load, the areas of lowest voltage would be observed on the Hydro One portion of the



circuit. The areas of low-voltage will also differ depending on where the two circuits are connected. As the voltage support issues are not severe, a 2.5% tap increase on the transformer should restore the problematic voltages to acceptable values. The main conductors of the Hydro One feeder circuit leaving the substation (if they are 3/0 ACSR) are expected to be slightly overloaded at 107% of their rated ampacity. The 5MVA substation transformer will also be overloaded at 129% of its nominal capacity, but since lower ambient temperatures are expected during this situation, the transformer should be able to provide this level of overloading without harm for the duration of most emergencies. Currents as high as 450 amps may flow in the conductors of the main part of the circuit under emergency peak winter loading conditions. The reclosers at the substation on the Hydro 2000 feeder circuit, and probably those on the Hydro One circuit as well, will prevent this much current flow. Although the ratings of the switches in the main sections of the feeder circuits are not known, it is unlikely that they are of adequate rating to permit this level of current flow either, even in lower ambient temperatures.

It is likely that the Hydro One and Hydro 2000 feeders could provide emergency service for one another in the event of a loss of either feeder under peak summer loading conditions. However, the reclosers and switches in either circuit would likely prevent each from doing so under peak winter loading conditions.

LOAD GROWTH

There are no known plans for development in the Plantagenet area that will significantly affect the electricity demand in the coming years. That being said, there will be some changes in the loading levels in the future, mainly due to loading increases by existing customers and some infill. In order to predict how the loading levels will change in the next 10 years, we extrapolated using 3% load growth. As described for the Alfred section, this will probably be a conservative extrapolation unless significant changes occur within the distribution. The loading forecast is presented in the table below, with figures in kilowatts, and forecast figures shown in italics.

PLANTAGENET - LOAD FORECAST

kW Demand	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Nominal	833	859	886	912	940	968	997	1,027	1,057	1,089	1,122	1,156	1,190
Summer Peak	1,807	1,748	1,807	1,861	1,917	1,975	2,034	2,095	2,158	2,222	2,289	2,358	2,428
Winter Peak	2,583	2,693	2,693	2,774	2,857	2,943	3,031	3,122	3,216	3,312	3,411	3,514	3,619

Under projected future peak summer loading conditions for 2015, the lowest system voltage was 94.25% of nominal, which is within the acceptable range. The most heavily loaded conductors in the circuit are the main 3/0 ACSR ones from the substation, the most heavily loaded at just over 50% of rated ampacity (at an ambient temperature of 30 degrees Celsius). Note that both the worst-case feeder voltage and the maximum current in each conductor are estimated based on the assumption that the balancing changes are done. Without rebalancing, voltage support and conductor overloading will likely be problems on the heavily loaded red phase of the circuit. The 5MVA transformer is loaded within its capabilities, at approximately 75%. The circuit reclosers should permit the projected peak summer loading as the maximum current expected is 190 amps.

The results for the anticipated 2015 peak winter loading conditions were very similar to the summer case. Minimum system voltage was 91.1%, just outside the acceptable range, correctable through 2.5% tap



boost on the 5MVA transformer. The blue phase conductor in the main 3/0 ACSR portion of the feeder is the most heavily loaded in the system, at 70% of its rated (winter) ampacity, and the transformer is loaded at approximately 80%. The limiting factor for providing for future load growth will be the single-phase circuit reclosers. The highest current expected to flow through a recloser is about 290 amps, which exceeds the allowable current of 250 Amps for these 200 A trip coils. It is recommended that the trip coils of the reclosers be upgraded to the maximum 280 A to allow for as much of the anticipated load growth as possible.

The table below shows the estimated currents expected in the coming years during peak summer and winter loading, assuming perfect balance between the phases. These values are compared against the 250A trip rating of the single-phase circuit reclosers, which have been determined to be the limiting factor in supporting future load growth. Currents within 90% of the recloser trip rating are shown in orange in the table, and cases where the current exceeds the trip rating are shown in red. As indicated, the circuit reclosers will become heavily stressed within the next few years under anticipated winter peak loading conditions. The load growth is expected to exceed the capability of the circuit reclosers within the next six years. Note that this prediction assumes that the phases are balanced as suggested earlier in the report. If the rebalancing changes are not done, the demand figures indicate that the recloser on the heavily loaded red phase is could very well operate during period of heavy loading much earlier.

				Year &	Amps F	er Recid	oser (Ba	lanced S	System)		
Feeder	Season	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Winter (A)	213.9	220.3	226.9	233.7	240.7	248.0	255.4	263.0	270.9	279.0
Hydro 2000 -	Summer (A)	143.5	147.8	152.3	156.8	161.5	166.4	171.3	176.5	181.8	187.2
Plantagenet	Winter (kW)	2774.0	2857.0	2943.0	3031.0	3122.0	3216.0	3312.0	3411.0	3514.0	3619.0
	Summer (kW)	1861.0	1917.0	1975.0	2034.0	2095.0	2158.0	2222.0	2289.0	2358.0	2428.0

SYSTEM LOADING UNDER EMERGENCY CONDITIONS

Failure of the Hydro 2000 Plantagenet feeder was simulated under peak summer and winter loading conditions projected for the year 2015. In the simulations, we assumed that provisions would be made for the Hydro One feeder to service the Hydro 2000 loads on a temporary basis. The same assumptions were made here as were in our analysis done for present loading conditions. If the assumptions are valid, we found that the Hydro One circuit would have difficulty supporting the Plantagenet loading anticipated in the future under peak summer and winter loading conditions.

Subjected to peak summer loading conditions, the Hydro One main conductors, presumed to be 3/0 ACSR would be very heavily loaded, and some sections, overloaded up to 108% of rated ampacity (at 30 degrees Celsius.) Voltage support is just adequate for extreme operating conditions for the entire circuit, with a minimum system voltage at 89.2% of nominal. If the main circuit conductors for the Hydro One network are, in fact, larger than 3/0, both of these situations (the loading and voltage support) would be improved. However, the combined loading of the two circuits exceeds the capacity of the 5MVA transformer by 15% (assuming the Hydro One circuit is loaded and grows to the same extent as the Plantagenet feeder).

Under 2015 projected peak winter loading conditions, system voltages were below the acceptable range in a very large area of Plantagenet, even with a 2.5% voltage tap applied. The system voltage is



expected to be as low as 85.6% on the red phase between the public school and the substation. The overloading of the main circuit conductors is more severe than in the summer case, at 145%. The 5MVA transformer is overloaded, in this case, by about 73%. (Again, this analysis assumes that the Hydro One circuit is loaded and grows to the same extent as the Plantagenet feeder).

Provided the assumptions made in constructing the model of the Hydro One circuit are valid, the conductors and the main substation transformer do not have adequate capacity to support the Hydro 2000 Plantagenet load under emergency situations expected in the future. However, the Hydro One circuit may, in fact, be capable of supporting the additional load if its main conductors are larger than 3/0 (336 kcmil), and its nominal loading levels are significantly smaller than the assumed 1000 kVA (about 500 kVA) without significant growth anticipated for the near future.



RECOMMENDATIONS

Recommended Upgrades

- 1. Update both the Alfred and Plantagenet system single lines to add further system information, including the ratings of all switches, the size of all conductors, and other details (Budget \$6,000)
- 2. Rebalance Alfred feeders F2 and F3, and Plantagenet feeder F1 to minimize losses, possible options to rebalance include the following:

Alfred

- 1. F2: 54-75 R to B (Telegraph & Dumoulin Street)
- 2. F2: 76-75 W to B (Dumoulin Street)
- 3. F3: 44-75, B to W (Bolt Rd., between St. Joseph & Chatelaine)

Plantagenet

- 4. Main St. (between Concession & Ottawa): 20-100 R to B
- 5. Water St. (between L'Eglise & Concession): 13-75 R to W
- 6. Main St. & Concession St.: 18-50 R to W

The system main feeders should be measured before rebalancing to verify the unbalance, then the re-phasing should be done. Note changes to rebalance feeder are not recommended if the present imbalance can be corrected in the near future through smart distribution of additional loading required for new subdivisions. (Budget \$2,000)

Possible Future Upgrades

- 3. Various capacity constraints during both normal and emergency situations will be approached in 2015 using conservative load growth factors. Before that point, the loading levels and this study should be reviewed to determine the next steps required at that point. Various items like switches, lines, meters, and other devices may have to be upgraded at that time. This is especially critical on the Plantagenet feeder with the constraints on the reclosers and the main lines. This will be updated with further Hydro One information as it is received.
- 4. If the level of metering data provided by Hydro One is sufficient at this time, there would be no further requirement for additional metering. However, if dedicated Hydro 2000 metering is required for any reason, it is possible to provide modern digital metering for all three feeders (Alfred F2 and F3, Plantagenet F1) at a point accessible to Hydro 2000. This metering should provide all basic electrical parameters (voltage, current, PF, power, energy, and demand), plus power quality parameters (sags and swells, harmonics, transients, flicker), data and waveform logs (triggering, min/max, trending, timestamps), communications, set points, and alarming. (Budget \$18,000 if existing metering current transformers and potential transformers can be used by Hydro 2000, probably another \$75,000 if additional 3 metering transformer units need to be added).

Exhibit: 4 Tab: 3

Schedule: 1

Page: 1

Hydro 2000 Inc.

INCOME TAX, LARGE CORPORATON TAX AND ONTARIO CAPITAL TAX TABLE

Summary of Income Tax Calculation

INCOME TAX, LARGE CORPORATON TAX AND ONTARIO CAPITAL TAX TABLE	2006 Board Approved	2006 Actual	2007 Bridge	2008 Test
Determination of Taxable Income	<u> </u>			
Regulatory Net Income (before tax)	47,530	4,851	(27,158)	32,388
Book to Tax Adjustments				
Additions to Accounting Income:				
Depreciation and amortization	36,818	44,364	48,834	56,569
Employee Benefit Plans - accrued, not paid	-	-	-	-
Hedge loss - accrued	-	-	-	-
Meals & entertainment / Mileage	-	-	-	-
Research & Development ITC	-	-	-	-
Regulatory adjustments	-	186,552	215,333	215,333
Total Additions	36,818	230,916	264,167	271,902
Deductions from Accounting Income:				
Capital Cost Allowance	(36,818)	(35,408)	(53,013)	(52,586)
Employee Benefit Plans - amounts paid	-	-	-	-
Hedge loss - payment	-	-	-	-
Environmental costs (incl. in amortization)	-	-	-	-
Capitalized pension costs	-	-	-	-
Capitalized overhead costs	-	-	-	-
Surplus staff payments	-	-	-	-
Loss carry-forward	(87,073)			
Regulatory adjustments	(15,870)	(58,440)	(66,004)	(59,584)
Total Deductions	(139,761)	(93,848)	(119,017)	(112,170)
Regulatory Taxable Income	-	141,919	117,992	192,120
Corporate Income Tax Rate	19.12%	18.62%	18.62%	17.00%
Subtotal	-	26,425	21,970	32,660
Less: R&D ITC (0.3)	-	-	-	-
Regulatory Income Tax	_	26,425	21,970	32,660

	1			
Calculation of Utility Income Taxes				
Income Taxes (Line 23)	-	26,425	21,970	32,660
Large Corporation Tax (Line 14, page 2)	-	-	-	-
Total Taxes	-	26,425	21,970	32,660
<u>Tax Rates</u>				
Federal Tax	12.00%	12.00%	12.00%	11.50%
Federal Surtax	1.12%	1.12%	1.12%	0.00%
Provincial Tax	6.00%	5.50%	5.50%	5.50%
Total Tax Rate	19.12%	18.62%	18.62%	17.00%
Calculation of Large Corporation Tax				
Rate Base:	-	-	-	-
Gross Plant at Cost	-	-	-	-
Less Accumulated Depreciation	-	-	-	-
Net Utility Plant	-	-	-	-
Cash Working Capital	-	-	-	-
Materials and Supplies	-	-	_	-
Customer Security Deposits	-	_	_	_
Total Working Capital Components	-	-	-	-
Less Federal Exemption	50,000,000	50,000,000	50,000,000	50,000,000
Net Rate Base	-	-	-	-
LCT Rate	0.20%	0.20%	0.20%	0.20%
Subtotal	-	-	-	-
Less Federal Surtax	-	(1,589)	(1,322)	-
Large Corporation Tax	-	-	-	-

Exhibit: 4 Tab: 3

Schedule: 1 Page: 2

Hydro 2000 Inc.

Calculation of Utility Income Taxes				
Income Taxes (Line 23)	_	26,425	22,244	34,093
Large Corporation Tax (Line 14, page 2)	_	_	_	_
Total Taxes	_	26,425	22,244	34,093
		-,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Tax Rates				
Federal Tax	12.00%	12.00%	12.00%	11.50%
Federal Surtax	1.12%	1.12%	1.12%	0.00%
Provincial Tax	6.00%	5.50%	5.50%	5.50%
Total Tax Rate	19.12%	18.62%	18.62%	17.00%
Calculation of Large Corporation Tax				
Rate Base:	-	-	-	-
Gross Plant at Cost	-	-	-	-
Less Accumulated Depreciation	-	-	-	-
Net Utility Plant	-	-	-	-
Cash Working Capital				
Materials and Supplies		-	-	_
Customer Security Deposits		_	_	
Total Working Capital Components	-	-	-	-
Less Federal Exemption	50,000,000	50,000,000	50,000,000	50,000,000
Net Rate Base	-	-	-	-
LCT Rate	0.20%	0.20%	0.20%	0.20%
Subtotal	-	-	-	-
Less Federal Surtax	-	(1,589)	(1,338)	-
Large Corporation Tax	-	-	-	-

Exhibit: 4 Tab: 3

Schedule: 2 Page: 1

Hydro 2000 Inc.

INTEREST EXPENSE

	(\$)
200	<u>5</u>
2005 Actual Interest Expense	21,293
2005 Capitalized Interest (USoA 6040)	
2005 Capitalized Interest (USoA 6042)	
Interest on capitalized lease	
2005 Actual Interest	21,293
Interest Forecast for Tier 1 or 2 Adjustments	3
Total Interest	21,293
Excess Interest Expense for 2005 PILs	6
Excess Interest Expense for 2005 PILs 200	6
	20,103
2000	
2006 Actual Interest Expense 2006 Capitalized Interest (USoA 6040) 2006 Capitalized Interest (USoA 6042)	
2006 Actual Interest Expense 2006 Capitalized Interest (USoA 6040)	
2006 Actual Interest Expense 2006 Capitalized Interest (USoA 6040) 2006 Capitalized Interest (USoA 6042)	
2006 Actual Interest Expense 2006 Capitalized Interest (USoA 6040) 2006 Capitalized Interest (USoA 6042) Interest on capitalized lease	20,103
2006 Actual Interest Expense 2006 Capitalized Interest (USoA 6040) 2006 Capitalized Interest (USoA 6042) Interest on capitalized lease 2006 Actual Interest	20,103

File Number: EB-2007-0704

Exhibit: 4 Tab: 3 Schedule: 2

Page: 2

Hydro 2000 Inc.

2007	
2007 Actual Interest Expense	18,846
2007 Capitalized Interest (USoA 6040)	-
2007 Capitalized Interest (USoA 6042) Interest on capitalized lease	-
2007 Actual Interest	18,846
Interest Forecast for Tier 1 or 2 Adjustments	-
Total Interest	18,846
Excess Interest Expense for 2007 PILs	-
<u>2008</u>	
2008 Actual Interest Expense	17,518
2008 Capitalized Interest (USoA 6040) 2008 Capitalized Interest (USoA 6042) Interest on capitalized lease	-
2008 Actual Interest	17,518
Interest Forecast for Tier 1 or 2 Adjustments	-
Total Interest	17,518
Excess Interest Expense for 2008 PILs	-

Exhibit: 4 Tab: 3

Tab: 3 Schedule: 3

Page: 1

Hydro 2000 Inc.

CAPITAL COST ALLOWANCE

2006 Board Approved

Class	Class Description	UCC Opening Balance	Addition s	Dispositions	UCC Before 1/2 Yr Adjustment	1/2 Year Rule {1/2 Additions Less Disposals}	Reduced UCC	Rate %	CCA	UCC Ending Balance
1	Distribution System - 1988 to 22-Feb-2005	141,275	-	-	141,275	-	141,275	4%	5,651	135,624
2	Distribution System - pre 1988	255,343			255,343	-	255,343	6%	15,321	240,022
8	General Office/Stores Equip	3,288			3,288	-	3,288	20%	658	2,630
10	Computer Hardware/ Vehicles	7,403			7,403	-	7,403	30%	2,221	5,182
10.1	Certain Automobiles				-	-	-		-	-
12	Computer Software	4,061			4,061	-	4,061	100%	4,061	-
13 1	Lease # 1				-	-	-		-	-
13 2	Lease #2				-	-	-		-	-
13 3	Lease # 3				-	-	-		-	-
13 4	Lease # 4				-	-	-		-	-
14	Franchise				-	-	-		-	-
17	New Electrical Generating Equipment Acq'd after Feb 27/00 Other Than Bldgs				-	-	-		-	-
43.1	Certain Energy-Efficient Electrical Generating Equipment				-	-	_		_	_
45	Computers & Systems Software acq'd post Mar 22/04				_	_	_	45%	_	_
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)				-	-	-	4070	-	-
47	Distribution System - post 22-Feb-2005				-	-	_	8%	-	-
98	No CCA				-	-	-		-	-
	TOTAL	411,370	-	-	411,370	-	411,370		27,912	383,458

Exhibit: 4 Tab: 3 Schedule: 3

Page: 2

Hydro 2000 Inc.

2006 Actual

Class	Class Description	UCC Opening Balance	Additions	Dispositions	UCC Before 1/2 Yr Adjustment	1/2 Year Rule {1/2 Additions Less Disposals}	Reduced UCC	Rate %	CCA	UCC Ending Balance
1	Distribution System - 1988 to 22-Feb-2005	178,300	36,084	-	214,384	18,042	196,342	4%	7,854	206,530
2	Distribution System - pre 1988	240,022			240,022	-	240,022	6%	14,401	225,621
8	General Office/Stores Equip	2,630			2,630	-	2,630	20%	526	2,104
10	Computer Hardware/ Vehicles	5,182			5,182	-	5,182	30%	1,555	3,627
10.1	Certain Automobiles				-	-	-		-	-
12	Computer Software	4,294	9,586		13,880	4,793	9,087	100%	9,087	4,793
13 1	Lease # 1				-	-	-		-	-
13 2	Lease #2				-	-	-		-	-
13 3	Lease # 3				-	-	-		-	-
13 4	Lease # 4				-	-	-		_	-
14	Franchise				-	-	-		-	-
17	New Electrical Generating Equipment Acq'd after Feb 27/00 Other Than Bldgs				-	-	-		-	-
43.1	Certain Energy-Efficient Electrical Generating Equipment				-	-	_		-	-
45	Computers & Systems Software acq'd post Mar 22/04	1,168	5,692		6,860	2,846	4,014	45%	1,806	5,054
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)				-	-	-		-	-
47	Distribution System - post 22-Feb-2005				-	-	-	8%	-	-
98	No CCA				-	-	-		-	-
	TOTAL	431,596	51,362	-	482,958	25,681	457,277		35,229	447,729

Exhibit: 4

Tab: 3 Schedule: 3

Page: 3

Hydro 2000 Inc.

2007 Bridge

Class	Class Description	UCC Opening Balance	Additions	Disposition s	UCC Before 1/2 Yr Adjustment	1/2 Year Rule {1/2 Additions Less Disposals}	Reduced UCC	Rate %	CCA	UCC Ending Balance
1	Distribution System - 1988 to 22-Feb-2005	206,530	-	-	206,530	-	206,530	4%	8,261	198,269
2	Distribution System - pre 1988	225,621			225,621	-	225,621	6%	13,537	212,084
8	General Office/Stores Equip	2,104			2,104	-	2,104	20%	421	1,683
10	Computer Hardware/ Vehicles	3,627			3,627	-	3,627	30%	1,088	2,539
10.1	Certain Automobiles	-			-	-	-		-	-
12	Computer Software	4,793	42,000		46,793	21,000	25,793	100%	25,793	21,000
13 1	Lease # 1	-			-	-	-		-	-
13 2	Lease #2	-			-	-	-		-	-
13 3	Lease # 3	-			-	-	-		-	-
13 4	Lease # 4	-			-	-	-		-	-
14	Franchise	-			-	-	-		-	-
17	New Electrical Generating Equipment Acq'd after Feb 27/00 Other Than Bldgs	_			-	_	-		-	-
43.1	Certain Energy-Efficient Electrical Generating Equipment	_			_	_	_		_	_
45	Computers & Systems Software acq'd post Mar 22/04	5,054			5,054	_	5,054	45%	2,274	2,780
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	-			-	-	-	,	-	-
47	Distribution System - post 22-Feb-2005	-	36,798		36,798	18,399	18,399	8%	1,472	35,326
98	No CCA	-			-	-	-		-	-
	TOTAL	447.729	78,798		526,527	39,399	487,128		52,846	473,681

Exhibit: 4 Tab: 3 Schedule: 3

Page: 4

Hydro 2000 Inc.

2008 Test

	rest				•				,	
2008 Test			_							
Class	Class Description	UCC Opening Balance	Additions	Dispositions	UCC Before 1/2 Yr Adjustment	1/2 Year Rule {1/2 Additions Less Disposals}	Reduced UCC	Rate %	CCA	UCC Ending Balance
1	Distribution System - 1988 to 22-Feb-2005	198,269	-	-	198,269	-	198,269	4%	7,931	190,338
2	Distribution System - pre 1988	212,084			212,084	-	212,084	6%	12,725	199,359
8	General Office/Stores Equip	1,683			1,683	-	1,683	20%	337	1,346
10	Computer Hardware/ Vehicles	2,539			2,539	-	2,539	30%	762	1,777
10.1	Certain Automobiles	-			-	-	-		-	-
12	Computer Software	21,000			21,000	-	21,000	100%	21,000	-
13 1	Lease # 1	-			-	-	-		-	-
13 2	Lease #2	-			-	-	-		-	-
13 3	Lease # 3	-			-	-	-		-	-
13 4	Lease # 4	-			-	-	-		-	-
14	Franchise	-			-	-	-		-	-
17	New Electrical Generating Equipment Acq'd after Feb 27/00 Other Than Bldgs	-			-	-	-		-	_
43.1	Certain Energy-Efficient Electrical Generating Equipment	-			-	-	-		-	-
45	Computers & Systems Software acq'd post Mar 22/04	2,780			2,780	-	2,780	45%	1,251	1,529
46	Data Network Infrastructure Equipment (acq'd post Mar 22/04)	-			-	-	-		-	-
47	Distribution System - post 22-Feb-2005	35,326	140,000		175,326	70,000	105,326	8%	8,426	166,900
98	No CCA	-			-	-	-		-	-
	TOTAL	473,681	140,000	-	613,681	70,000	543,681		52,432	561,249

Exhibit: 4 Tab: 3 Schedule: 3

Page: 5

Hydro 2000 Inc.

Exhibit: 5

Tab: 1

Schedule: 1 Page: 1

Hydro 2000 Inc.

5 - Deferral and Variance Accounts

1	1	Description of Deferral and variance accounts
	2	Calculation of Balances by Account
	3	Method of Recovery

Exhibit: 5

Tab: 1 Schedule: 1

Page: 2

Hydro 2000 Inc.

DESCRIPTION OF DEFERRAL AND VARIANCE ACCOUNTS

COMMODITY ACCOUNTS ARE CLASSIFIED AS FOLLOWS:

1588 Retail Settlement Variance Account – Power

Description: Capture de variance between the cost of power billed by

Hydro One Networks Inc. (H.O.N.I.) on Power bill and Power Charged to

Hydro 2000 Inc. Customers in the sub-account 1588-01-05.

1588 RSVA Power, Sub-account Global Adjustments

Description: Capture de variance between the Global Adjustments billed by Hydro One Networks Inc. (H.O.N.I.) on Power bill and Global Adjustment Charged to Hydro 2000 Inc. Customers in the sub-account 1588-01-05.

NON-COMMODITY ACCOUNTS ARE CLASSIFIED IN TWO CATEGORIES AS FOLLOWS:

Wholesale and Retail Market Variance Accounts

1518 Retail Cost Variance Account – Retail Description: N/A at this time.

1548 Retail Cost Variance Account – STR Description: N/A at this time.

1580 Retail Settlement Variance Account - Wholesale Market Service Charges Description: Capture de variance between the Wholesale Market Service Charges billed by Hydro One Networks Inc. (H.O.N.I.) on Power bill and Wholesale Market Service Charges Charged to Hydro 2000 Inc. Customers in the sub-account 1584-01.

Exhibit: 5

Tab: 1 Schedule: 1

Page: 3

Hydro 2000 Inc.

Others Wholesale Market Service Charges billed by (H.O.N.I) from May 1St, 2002 to December 31st, 2004 was charged to Embedded Utilities and was captured in sub-account 1580-01-05. Charges approved by OEB Board.

Others Wholesale Market Service Charges billed by (H.O.N.I) from January 1St, 2005 to May1st, 2006 was charged to Embedded Utilities and was captured in sub-account 1580-01-06. Charges approved by OEB Board.

- 1582 Retail Settlement Variance Account One-time Wholesale Market Service Description: One-time Wholesale Market Service was billed by (H.O.N.I.) from January 1st, 2005 to May 1st, 2006 was charged to Embedded Utilities and was captured in sub account 1582-00-06
- 1584 Retail Settlement Variance Account Retail Transmission Network
 Charges

Description: Capture de variance between the Retail Transmission Network Charges billed by Hydro One Networks Inc. (H.O.N.I.) on Power bill and Retail Transmission Network Charges Charged to Hydro 2000 Inc. Customers in the sub-account 1584-01.

Others Retail Transmission Network Charges billed by (H.O.N.I) from May 1St, 2002 to December 31st, 2004 was charged to Embedded Utilities and was captured in sub-account 1584-01-05. Charges approved by OEB Board.

Others Retail Transmission Network Charges billed by (H.O.N.I) from January 1St, 2005 to May1st, 2006 was charged to Embedded Utilities and was captured in sub-account 1584-01-06. Charges approved by OEB Board.

Exhibit: 5

Tab: 1 Schedule: 1

Page: 4

Hydro 2000 Inc.

1586 Retail Settlement Variance Account - Retail Transmission Connection Charges

Description: Capture de variance between the Retail Transmission Connection Charges billed by Hydro One Networks Inc. (H.O.N.I.) on Power bill and Retail Transmission Connection Charges Charged to Hydro 2000 Inc. Customers in the sub-account 1586-01.

Others Retail Transmission Connection Charges billed by (H.O.N.I) from May 1St, 2002 to December 31st, 2004 was charged to Embedded Utilities and was captured in sub-account 1586-01-05. Charges approved by OEB Board.

Others Retail Transmission Connection Charges billed by (H.O.N.I) from January 1St, 2005 to May1st, 2006 was charged to Embedded Utilities and was captured in sub-account 1586-01-06. Charges approved by OEB Board.

- 1588 Retail Settlement Variance Account PowerDescription: Refer to commodity accounts description.
- 1588 Retail Settlement Variance Account Power Sub-Account Global Description: Refer to commodity accounts description.

Exhibit: 5

Tab: 1 Schedule: 1

Page: 5

Hydro 2000 Inc.

Utility Deferral Accounts

1508 Other Regulatory Assets

Description: Other Regulatory Assets Charges billed by (H.O.N.I) from May 1St, 2002 to December 31St, 2004 was charged to Embedded Utilities and was captured in sub-account 1508-00-05. Charges were approved by OEB Board.

Other Regulatory Assets Charges billed by (H.O.N.I) from January 1St, 2005 to May1st, 2006 was charged to Embedded Utilities and was captured in sub-account 1508-00-06. Charges approved by OEB Board.

Description:

1508 Other Regulatory Assets - Sub-account OEB Cost Assessments

Description: To capture the variance between OEB Cost Assessments
amount approved in 1999 versus the actual OEB Cost Assessments
charged. Charges are captured in sub-account 1508-00-05.

Other Regulatory Assets - Sub-account Pension ContributionsDescription: N/A at this time

1525 Miscellaneous Deferred Debits

Others Miscellaneous Deferred Debits charges billed by (H.O.N.I) from May 1St, 2002 to December 31St, 2004 was charged to Embedded Utilities and was captured in sub-account 1525-00-05. Charges approved by OEB Board.

1550 LV Recovery Offset Variance

Description: Capture de variance between LV Charges billed by Hydro One Networks Inc. (H.O.N.I.) on Power bill and LV Charges Charged to Hydro 2000 Inc. Customers in the sub-account 1550-00.

Exhibit: 5

Tab: 1 Schedule: 1

Page: 6

Hydro 2000 Inc.

1555 Smart Meter Capital and Recovery Offset Variance

Description: To capture the amount billed to Hydro 2000 Inc. customers in sub-account 1555-00.

1565 Smart Meter OM&A Variance

Description: To capture the amount spent by Hydro 2000 Inc. in sub-account 1565-00.

1562 Deferred Payments in Lieu of Taxes

Description: Was set-up as prescribed by the Board.

1563 PILs contra account

Description: Was set-up as prescribed by the Board.

1565 Conservation and Demand Management Expenditures and Recoveries

Description: Was set-up as prescribed by the Board.

1566 CDM Contra

Description: Was set-up as prescribed by the Board.

1572 Extraordinary Event Losses

Description: N/A at this time.

1574 Deferred Rate Impact Amounts

Description: N/A at this time.

1592 PILS & Tax Variance

Description: To capture the Variance between the PILS & tax billed to Hydro 2000 Inc. customers and the amount of PILS payable in subaccount 1592-00.

Exhibit: 5

Tab: 1 Schedule: 1

Page: 7

Hydro 2000 Inc.

2425 Other Deferred Credits

Description: N/A at this time.

Closed Accounts not classified are as follows:

1570 Qualifying Transition Costs (closed December 31, 2005)

Description: To capture all expenses for Transition Costs in sub-account 1570-00-10, 1570-00-15 and 1570-00-90. All Qualifying Transition Costs were approved by OEB Board.

1571 Pre-Market Opening Energy Variances (closed April 30, 2002)

Description: To capture the difference between the T.O.U and Non T.O.U short fall. Charges were approved by OEB Board.

All Deferral and Variance account have a sub-account capturing the interest calculated at the rate prescribed by the Board.

Hydro 2000 is requesting a deferral account to capture capital expenses in future years 2009 and 2010 that will be dispose in the next rebasing in 2011.

Note 1:

The RSVA power account 1588 is designed to capture variances due to billing timing differences (i.e. electricity charged by IESO to LDCs vs. electricity billed by LDCs to their customers), price and quantity differences (i.e. arising from final vs. preliminary IESO settlement invoices), and line loss differences (i.e. actual vs. estimated line loss factors).

This account is not designed to capture any price differences between the regulated price plan (RPP) and spot prices applicable to RPP customers. This is the function of the Ontario Power Authority (OPA) RPP variance account which is trued-up in accordance with the terms established by the Board for the RPP.

Accordingly, since the RSVA power account is generic to all customers of an LDC, disposition of the account balance in rates is attributable to all its customers.

The 1588 RSVA power - Sub-account Global Adjustments is designed for the global adjustments applicable to non-RPP customers. Hence, the disposition of the account balance should be attributable to non-RPP customers.

Exhibit: 5 Tab: 1 Schedule: 2

Page: 1

Hydro 2000 Inc.

CALCULATION OF BALANCES BY ACCOUNT

CALCULATION OF BALANCES BY ACCOUNT										
	OEB	Opening	Carrying	Charges	Net Ad	cruals	ıls Adjustments		nts Ending	
	Account	Balance	Period	LTD	Period	LTD	Period	LTD	Balance	
Commodity accounts are classified as follows:										
1588 Retail Settlement Variance Account - Power	1588	44,729	444	3,819	31,047	56,608	(15,793)	-	60,427	
1588 RSVA Power - Sub-account Global Adjustments	1588	-	-	-		-	-	-		
Non-commodity accounts are classified in two categories as follows:										
Wholesale and Retail Market Variance Accounts										
1518 Retail Cost Variance Account - Retail	1518	-	-	-	-	-	-	-	-	
1548 Retail Cost Variance Account - STR	1548	-	-	-	-	-	-	-	-	
1580 Retail Settlement Variance Account - Wholesale Market Service Charges	1580	47,512	2,373	2,379	2,557	5,980	(44,083)	-	8,359	
1582 Retail Settlement Variance Account - One-time Wholesale Market Service	1582	4,156	191	-	-	-	(4,347)	-	-	
1584 Retail Settlement Variance Account - Retail Transmission Network Charges	1584	(52,741)	(2,867)	(1,537)	(13,277)	(24,412)	42,936	-	(25,949)	
1586 Retail Settlement Variance Account - Retail Transmission Connection Charges	1586	363,175	16,377	4,323	(14,761)	(22,568)	(383,036)	-	(18,245)	
Utility Deferral Accounts										
1508 Other Regulatory Assets	1508	15,707	708	277	391	391	(16,138)	-	668	
1508 Other Regulatory Assets - Sub-account OEB Cost Assessments	1508	3,089	-	-	1,669	4,038	(720)	-	4,038	
1508 Other Regulatory Assets - Sub-account Pension Contributions	1508	10,775	-	-	-	-	(10,775)	-	-	
1525 Miscellaneous Deferred Debits		6,114	850	-		-	(6,964)	-	_	
1550 LV Variance Account	1550	-	290	290	20,722	20,722	-	-	21,012	
1555 Smart meter \$0.30 variance	1555									

Exhibit: 5

Tab: 1 Schedule: 2 Page: 2

Hvdro 2000 Inc.

<u>.</u>	iyaio zi	000 1110.							
		-	(34)	(34)	(2,368)	(2,368)	-	-	(2,402)
1556 Variance smart meter expense	1556	-	-	_	-	-	-	-	_
1562 Deferred Payments in Lieu of Taxes	1562	(102,425)	(4,812)	(9,253)	9,532	(88,452)	-	-	(97,705)
1563 PILs contra account	1563	102,425	4,812	9,253	(9,532)	88,452	-	-	97,705
1565 Conservation and Demand Management Expenditures and Recoveries (CDM)	1565	6,166	31	31	(3,487)	2,679	-	-	2,710
1566 Contra Account - CDM	1566	(6,166)	(191)	(191)	3,487	(2,679)	-	-	(2,870)
1572 Extraordinary Event Losses	1572	-	-	-	-	-	-	-	-
1574 Deferred Rate Impact Amounts	1574	-	-	-	-	-	-	-	-
1592 Deferred PILs Account	1592	-	-	-	10,211	10,211	-	-	10,211
2425 Other Deferred Credits	2425	-	-	-	-	-	-	-	-
Closed Accounts not classified are as follows:									
1570 Qualifying Transition Costs (closed December 31, 2002)	1570	154,714	2,635	-	-	-	(157,349)	-	-
1571 Pre-Market Opening Energy Variances (closed April 30, 2002)	1571	179,673	7,220	-	-	-	(186,893)	-	-
		776,903	28,027	9,357	36,191	48,602	(783,162)	-	57,959

Exhibit: 5

Tab: 1 Schedule: 3 Page: 1

Hydro 2000 Inc.

METHOD OF RECOVERY

Hydro 2000 Inc. is submitting a deferral and variance recovery model that is showing all the Deferral and Variance Accounts. The Amounts of Deferral and Variance financial statement at year end 2006 are inputted in the model. Hydro 2000 Inc. can select to recover or not the amount in the Deferral and Variance Account. Forecast amounts can be entered for different period from (January 1st, 2007 to Dec 31st, 2008) to reflect a more realistic on actual amount in Deferral and Variance Account. The forecast are used to prevent Deferral account to be cumulating large amounts and demonstrate the orientation of the account.

Hydro 2000 Inc. is applying to recover all Deferral and Variance selected in the model and the balance forecasted in account 1590 on a three year bases. By doing forecast of each account and disposing of all Deferral and Variance accounts customers rates will be more accurate with less fluctuation.

Class	200 Board Approved	2008 Proposed	% change
	\$0.0098	\$0.0032	-67.3%
Residential			
	\$0.0075	\$0.0029	-61.33%
GS less 50 kW			
	\$2.2403	\$1.0468	-53.3%
GS over 50 kW			
	\$0.0075	\$0.0029	-61.3%
Unmetered scattered load			
	(\$1.7676)	\$0.4060	0.0%
Street light			

All classes have will see their regulatory assets rates decrease by 53.3% to 67.3%. Only the Street Light will see an increase due to a negative regulatory assets recovery rate in previous years.

A copy of the Deferral and Variance Disposal model is attached on next page.

Exhibit: 5

Tab: 1 Schedule: 3 Page: 2

Hydro 2000 Inc.

DATE

NAME OF UTILITY NAME OF CONTACT E-MAIL ADDRESS PHONE NUMBER

LICENCE NUMBER ED-2007-0704 DOCID NUMBER

RP-2005-0020 EB-2005-0380

Annual Interest Rate: 4.59% Consult OEB website at:

http://www.oeb.gov.on.ca/html/en/industryrelations/rulesquidesandforms_regulatory_pres

This column should reconcile with Dec 31/06

Deferred Charge Accounts

		Dec 31/06 Balance		Apply for	Jan1/07 to Apr30/07			May1/07 to Dec31/07			Jan1 to Apr30/08			May1	
	Account	Principal	Accum.	. ↓	Disposal										
Account Description	Number	Portion	Interest	Total	?	Interest	Other	Balance	Interest	Other	Balance	Interest	Other	Balance	Interest
Unrecovered Plant and Regulatory Study Costs	1505	•	-	-	NO	-		-	-		-	-		-	-
Other Regulatory Assets	1508	4,429	277	4,705.78	YES	68	400	5,174	148	800	6,121	86	400	6,607	184
Preliminary Survey and Investigation Charges	1510			-	NO	-		-	-		-	-		-	-
Emission Allowance Inventory	1515			-	NO	-		-	-		-	-		-	-
Emission Allowances Withheld	1516			-	NO	-		-	-		-	-		-	-
Retail Cost Variance Account - Retail	1518	-		-	NO	-		-	-		-	-		-	-
Power Purchase Variance Account	1520			-	NO	-		-	-		-	-		-	-
Misc. Deferred Debits - incl. Rebate Cheques	1525			-	NO	-		-	-		-	-		-	-
Deferred Losses from Disposition of Utility Plant	1530			-	NO	-		-	-		-	-		-	-
Unamortized Loss on Reacquired Debt	1540			-	NO	-		-	-		-	-		-	-
Development Charge Deposits/ Receivables	1545			-	NO	-		-	-		-	-		-	-
Retail Cost Variance Account - STR	1548	-		-	NO	-		-	-		-	-		-	-
LV Variance Account	1550	20,722	290	21,012	YES	317	12,000	33,329	1,001	18,000	52,330	776	12,000	65,106	1,919
Smart Meter Capital Variance Account	1555	(2,368)	(34)	(2,402)	NO	(36)		(2,438)	(72)		(2,511)	(36)		(2,547)	(72)
Smart Meters OM&A Variance Account	1556			-	NO	-		-	-		-	-		-	-
Deferred Development Costs	1560			-	NO	-		-	-		-	-		-	-
Deferred Payments in Lieu of Taxes	1562	(88,451)	(9,253)	(97,705)	YES	(1,353)		(99,058)	(2,707)		######	(1,353)		(103,118)	(2,707)
PILS Contra Account	1563	88,451	9,253	97,705	YES	1,353		99,058	2,707		######	1,353		103,118	2,707
CDM Expenditures and Recoveries	1565	2,679	31	2,710	NO	41		2,751	82		2,833	41		2,874	82
CDM Contra Account	1566	(2,679)	(191)	(2,871)	NO	(41)		(2,912)	(82)		(2,994)	(41)		(3,035)	(82)
Qualifying Transition Costs	1570			-	NO	-		-	-		-	-		-	-
Pre-Market Opening Energy Variances Total	1571			-	NO	-		-	-		-	-		-	-
Extra-Ordinary Event Losses	1572			-	NO	-		-	-		-	-		-	-
Deferred Rate Impact Amounts	1574			-	NO	-		-	-		-	-		-	-
RSVA - Wholesale Market Service Charge	1580	5,980	2,379	8,359	YES	91		8,451	183		8,634	91		8,725	183
RSVA - One-time Wholesale Market Service	1582	-		-	NO	-		-	-		-	-		-	-
RSVA - Retail Transmission Network Charge	1584	(24,412)	(1,536)	(25,949)	YES	(374)		(26,322)	(747)		(27,069)	(374)		(27,443)	(747)
RSVA - Retail Transmission Connection Charge	1586	(22,569)	4,323	(18,245)	YES	(345)		(18,590)	(691)		(19,281)	(345)		(19,626)	(691)
RSVA - Power	1588	56,608	3,819	60,427	YES	866		61,293	1,732		63,025	866		63,892	1,732
Deferred PILs Account	1592	10,211	-	10,211	YES	156	11,125	21,492	653	11,125	33,270	497	17,050	50,817	1,515

8/18/2007 Page 1 of 10

Other Deferred Credits	2425	-	-	-	NO	-		-	-		-	-		-	-
Sub-totals		48,602	9,357	57,959		744	23,525	82,227	2,207	29,925	######	1,561	29,450	145,371	4,024
Recovery of Regulatory Asset Balances Approved Balance	(acct #1590)			395,384											
Less Period Disposals				000,00			76,610			######			77,039		
Plus Period Interest						5,463			7,577			2,143	,		816
Balance to (Refund) or Recover from 200	06			395,384				324,238			######			103,699	

8/18/2007 Page 2 of 10

Bridge Year (2007) Forecast

						LDK	Jan 1/07	Way 1701	-
				#	EDR 2006	2007	to	to	onal
				Custome	Approved	Approve	Apr30/07	Dec31/0	Allocati
Customer Class	Metric	kW	kWhs	rs	Rates*	d Rates**	Disposal	7	on
Residential	kWhs		16,382,735	997	0.0098	0.0098	53,517	######	70%
GS < 50 KW	kWhs		5,682,016	147	0.0075	0.0075	14,205	28,410	19%
GS > 50 Non TOU	kW	13,280	5,496,281	12	2.1218	2.1218	9,393	18,785	12%
Small Scattered Load	kWhs		19,951	6	0.0075	0.0075	50	100	0%
Street Lighting	kW	941	359,553	368	-1.7676	-1.7676	(554)	(1,109)	-1%
Totals		14,221	27,940,536	1,530			76,610	######	100%

8/18/2007 Page 3 of 10

Test Year (2008) Forecast

(2000)						#						
						Custome	Additiona	Addition	Additio	EDR	Jan1/08	May 1/08
				#		rs	1	al	nal	2007	to	to Dec
				Custome	Dx	w/Rebate	Allocator	Allocato	Allocato	Approve	Apr30/08	31/08
Customer Class	Metric	kW	kWhs	rs	Revenue	Cheques	1	r 2	r 3	d Rates	Disposal	Disposal
Residential	kWhs		16,514,191	1,005						0.0098	53,946	107,893
GS < 50 KW	kWhs		5,682,016	147						0.0075	14,205	28,410
GS > 50 Non TOU	kW	13,280	5,496,281	12						2.1218	9,393	18,785
Small Scattered Load	kWhs		19,951	6						0.0075	50	100
Street Lighting	kW	941	359,553	368						-1.7676	(554)	(1,109)
Totals		14,221	#######	1,538	-	-	-	-	-		77,039	154,079

http://www.oeb.gov.on.ca/html/en/consumers/understanding/2006edr_decisions.htm

http://www.oeb.gov.on.ca/html/en/consumers/understanding/2007edr_decisions.htm

8/18/2007 Page 4 of 10

^{*} EDR Approved 2006 rates can be found at:

^{**} EDR Approved 2007 rates can be found at:

1 to Dec31/08

Other	Balance
	-
800	7,592
	-
	-
	- - - - -
	-
	-
	-
	-
	-
	-
	67,025
-	(2,620)
	(2,020)
	_
	(105,825)
	105,825
	2,956
	(3,117)
	-
	-
	-
	-
	8,908
	-
	(28,190)
	(20,317)
	65,624
	52,332

8/18/2007 Page 5 of 10

800 150,195

(49,564)

8/18/2007 Page 6 of 10

	Account	Dec31/06	Apr 30/08				GS > 50	Small Scattered	Street	
Account Description	Number	Balance		Allocation Basis	Residential	GS < 50 KW		Load	Lighting	Totals
Unrecovered Plant and Regulatory Study Costs	1505	-	-						<u> </u>	-
Other Regulatory Assets	1508	4,706	6,607	KWh	3,887	1,337	1,294	5	85	6,607
Preliminary Survey and Investigation Charges	1510	´-	· -							-
Emission Allowance Inventory	1515	-	-							-
Emission Allowances Withheld	1516	-	-							-
Retail Cost Variance Account - Retail	1518	-	-	# Customers	-	-	-	-	-	-
Power Purchase Variance Account	1520	-	-							-
Misc. Deferred Debits - incl. Rebate Cheques	1525	-	-	Customers w/Rebate Cheque						_
Deferred Losses from Disposition of Utility Plant	1530	-	-	· ·						-
Unamortized Loss on Reacquired Debt	1540	-	-							-
Development Charge Deposits/ Receivables	1545	-	-							_
Retail Cost Variance Account - STR	1548	-	-	# Customers	-	-	-	-	-	_
LV Variance Account	1550	21,012	65,106	KWh	38,301	13,178	12,747	46	834	65,106
Smart Meter Capital Variance Account	1555	-	-		,	-, -	,			-
Smart Meters OM&A Variance Account	1556	-	-							-
Deferred Development Costs	1560	-	-							-
Deferred Payments in Lieu of Taxes	1562	(97,705)	######	KWh	(60,662)	(20,872)	(20,190)	(73)	(1,321)	(103,118)
PILS Contra Account	1563	97,705	103,118	KWh	60,662	20,872	20,190	73	1,321	103,118
CDM Expenditures and Recoveries	1565	´-	· -							´-
CDM Contra Account	1566	_	-							-
Qualifying Transition Costs	1570	-	-	# Customers	-	-	-	-	-	-
Pre-Market Opening Energy Variances Total	1571	-	-	KWh for Non TOU Customers	-	-	-	-	-	_
Extra-Ordinary Event Losses	1572	-	-	Dx Revenue						-
Deferred Rate Impact Amounts	1574	-	-							-
RSVA - Wholesale Market Service Charge	1580	8,359	8,725	KWh	5,133	1,766	1,708	6	112	8,725
RSVA - One-time Wholesale Market Service	1582	´-	· -	KWh	· -	· -	· -	-	-	-
RSVA - Retail Transmission Network Charge	1584	(25,949)	(27,443)	KWh	(16,144)	(5,555)	(5,373)	(20)	(351)	(27,443)
RSVA - Retail Transmission Connection Charge		(18,245)	(19,626)	KWh	(11,546)	(3,973)	(3,843)	(14)	(251)	(19,626)
RSVA - Power	1588	60,427	63,892	KWh	37,586	12,932	12,509	45	818	63,892
Deferred PILs Account	1592	10,211	50,817	KWh	29,894	10,286	9,950	36	651	50,817
Other Deferred Credits	2425	-	-	# Customers	-	-	-	-	-	-
						_				
Sub-total to Dispose at May1/08 or Dec31/06?	Apr30/08	60,521	148,078		87,111	29,972	28,993	105	1,897	148,078
Clear residual 1590 balance as of April 30/08?	YES				72,440	19,228	12,714	68	(750)	103,699
Total to Dispose at May1/08					159,552	49,200	41,706	173	1,146	251,777
Disposal period?	3 YEARS				53,184	16,400	13,902	58	382	83,926
Projected 2008 Rate Riders					0.0032	0.0029	1.0468	0.0029	0.4060	
Rate Determinant				'	kWh	kWh	kW	kWh	kW	
Nate Determinant					LAAII	LAAII	LVVV	LAAII	IV A A	

8/18/2007 Page 7 of 10

Account Description

Unrecovered Plant and Regulatory Study Costs

Other Regulatory Assets

Preliminary Survey and Investigation Charges

Emission Allowance Inventory

Emission Allowances Withheld

Retail Cost Variance Account - Retail

Power Purchase Variance Account

Misc. Deferred Debits - incl. Rebate Cheques

Deferred Losses from Disposition of Utility Plant

Unamortized Loss on Reacquired Debt

Development Charge Deposits/ Receivables

Retail Cost Variance Account - STR

LV Variance Account

Smart Meter Capital Variance Account

Smart Meters OM&A Variance Account

Deferred Development Costs

Deferred Payments in Lieu of Taxes

PILS Contra Account

CDM Expenditures and Recoveries

CDM Contra Account

Qualifying Transition Costs

Pre-Market Opening Energy Variances Total

Extra-Ordinary Event Losses

Deferred Rate Impact Amounts

RSVA - Wholesale Market Service Charge

RSVA - One-time Wholesale Market Service

RSVA - Retail Transmission Network Charge

RSVA - Retail Transmission Connection Charge

RSVA - Power

Deferred PILs Account

Other Deferred Credits

Checks Alla Totals Agai

Sub-total to Dispose at May1/08 or Dec31/06? ◀

to Recover May1/08 or 31/06

Clear residual 1590 balance as of April 30/08?

Total to Dispose at May1/08

Disposal period?

Projected 2008 Rate Riders

Rate Determinant

8/18/2007 Page 8 of 10

Test Year (2008) Allocations

Customer Class	Metric	kW	KWh	# Customers	KWh for Non TOU Customers	Dx Revenue	# Customers w/Rebate Cheques
Residential	kWhs	0%	59%	65%	60%		
GS < 50 KW	kWhs	0%	20%	10%	21%		
GS > 50 Non TOU	kW	93%	20%	1%	20%		
#REF #REF #REF	!						
Small Scattered Load #REF #REF		0%	0%	0%	0%		
Street Lighting #REF #REF #REF #REF	! !	7%	1%	24%			
Totals		100%	100%	100%	100%	0%	0%

8/18/2007 Page 9 of 10

Test Year (2008) Allocations

Customer Class

Residential
GS < 50 KW
GS > 50 Non TOU

#REF!
#REF!
#REF!
Small Scattered Load

#REF!
#REF!
Street Lighting

#REF!
#REF!
#REF!
#REF!
#REF!
#REF!
#REF!

Totals

8/18/2007 Page 10 of 10

Exhibit: 6 Tab: 1

Schedule: 1

Page:1

Hydro 2000 Inc.

<u>Ex</u> .	<u>Tab</u>	<u>Schedule</u>	Contents of Schedule
6 - Cost of	Capital	and Rate of R	<u>Return</u>
	1	1	Overview
		2	Capital Structure
		3	Cost of Debt
		4	Return on Equity

Exhibit: 6 Tab: 1

Schedule: 1

Page: 2

Hydro 2000 Inc.

OVERVIEW

The purpose of this evidence is to summarize the method and cost of financing the Applicant's capital requirements for the 2008 test years.

Capital Structure

The Applicant has a deemed capital structure of 50% debt, 50%, as approved by the Ontario Energy Board in RP-2005-0020 and a deemed return on equity of 9.0%, consistent with the return specified in the Board's Decision in EB-2005-0380, dated May 25th ,2006. The Applicant is requesting Board approval of a phased in capital structure of 60% debt, 40% equity including an equity return of 8.68%

The Applicant is requesting this change in capital structure and associated return on equity primarily to be consistent with board directive. The Applicant believes the requested capital structure and equity return will provide continued access to long-term debt at reasonable rates.

Return on Equity

The Applicant is requesting an equity return for the 2008 test year of 8.68%.

Exhibit: 6 Tab: 1

Schedule: 2 Page: 1

Hydro 2000 Inc.

CAPITAL STRUCTURE

2006 Board Approved

2006 Board Approved				
Elements	\$	Ratio (%)	Interest Rate (%)	Return (%)
Long-term debt	392,418	35.0%	5.80%	
Unfunded short-term debt	-	0.0%		
Preference shares	-	0.0%		
Common equity	727,283	65.0%		9.00%
Total	1,119,701	100.0%		

2006 Actual

2006 Actual				
Elements	\$	Ratio (%)	Interest Rate (%)	Return (%)
Long-term debt	348,516	32.5%	5.80%	
Unfunded short-term debt	-	0.0%	4.77%	
Preference shares	-	0.0%		
Common equity	722,244	67.5%		0.55%
Total	1,070,760	100.0%		

Exhibit: 6 Tab: 1 Schedule: 2 Page: 2

Hydro 2000 Inc.

2007 Bridge

2007 Bridge				
Elements	\$	Ratio (%)	Interst Rate (%)	Return (%)
Long-term debt	324,713	31.7%	5.80%	
Unfunded short-term debt	-	0.0%	4.77%	
Preference shares	-	0.0%		
Common equity	700,002	68.3%		8.68%
Total	1,024,715	100.0%		

2008 Test

2008 Test				
Elements	\$	Ratio (%)	Interst Rate (%)	Return (%)
Long-term debt	299,582	29.2%	5.80%	
Unfunded short-term debt	-	0.0%	4.77%	
Preference shares	-	0.0%		
Common equity	726,740	70.8%		8.68%
Total	1,026,322	100.0%		

Hydro 2000 will follow Board directive and will apply for a capital structure of 60% debt and 40% common equity in its rate rebasing application.

At the current time Hydro 2000 Inc. is paying its long-term debt that will expire in 2017. The long-term Debt will decrease and common equity will increase yearly by the generated profits.

Exhibit: 6

Tab: 1 Schedule: 3

Page: 1

Hydro 2000 Inc.

COST OF DEBT

COST OF DEBT												
	200	6 Board App	roved	2006 Actual		2007 Bridge			2008 Test			
	Principle	Carrying Costs	Calculated Cost Rate	Principle	Carrying Costs	Calculated Cost Rate	Principle	Carrying Costs	Calculated Cost Rate	Principle	Carrying Costs	Calculated Cost Rate
Long-Term Debt												
Township of Alfred and Plantagenet	392,418	18,031	5.8%	348,516	20,103	5.8%	324,713	18,846	5.8%	299,582	17,518	5.8%
Debt Holder 2												
Debt Holder 3												
Debt Holder 4												
Total	392,418	18,031		348,516	20,103		324,713	18,846		299,582	17,518	
Short-Term Debt												
Debt Holder 1												
Unfunded Debt												
Operating Loan												
Total	l <u>.</u>	_			_		_			_	_	

Exhibit: 6

Tab: 1 Schedule: 4

Page: 1

Hydro 2000 Inc.

RETURN ON EQUITY

The calculations used to determine the return on equity and the debt are taken from the "Report to the Board on Cost of Capital and 2nd Generation Incentive Regulation for Ontario's Electricity Distributors" issued December 20, 2006.

Excerpt from the Report of the Board on Cost of Capital and 2nd Generation Incentive Regulation for Ontario's Electricity Distributors Appendix A and Appendix B

Method to Update the Deemed Long-term Debt Rate

The Board will use the Long Canada Bond Forecast plus an average spread with "A/BBB" rated corporate bond yields to determine the updated deemed debt rate.

The following approach is consistent with the ROE method. As per the approach adopted in the 2006 EDRH, the ROE and the long-term debt rates are based on the same risk-free rate forecast. Therefore, they differ only through the risk premiums that reflect their distinct natures and for which lenders/investors seek commensurate returns. This approach simplifies the calculations and aims to make it easier to understand the numbers. Specifically, the Long Canada Bond Forecast (*LCBFt*) used will be the same as that used for updating the ROE. The average spread between "A/BBB" rated corporate bond yields and 30-year (long) Government of Canada Bond yields will be calculated as the average spread over the weeks of the month corresponding to the Consensus Forecasts.

The deemed Long-Term Debt Rate (*LTDRt*) will be calculated as follows:

$$LTDR_{t} = LCBF_{t} + \frac{\sum\limits_{w} (CorpBonds_{w,t} -_{30} CB_{w,t})}{n}$$

Where:

- **CorpBonds** w,t is the average long-term corporate bond yield from Scotia Capital Inc. for week w of period t [Series V121761];
- **30CB**w,t is the 30-year (long) Government of Canada bond yield for week w of period t [Series V121791]; and
- **n** is the number of weeks in the month for which data are reported.

Exhibit: 6 Tab: 1

Schedule: 4 Page: 2

Hydro 2000 Inc.

Method to Update ROE - ROE Update for any Period

Using March 1999 as the starting calculation and substituting for the initial ROE and Long Canada Bond Forecast approved by the Board in the Decision RP-1998-0001 the following is the adjustment formula for calculating the ROE at time *t*:

$$ROE_t = 9.35\% + 0.75 \times (LCBF_t - 5.50\%)$$

The ROE must be set in advance of the approved rates. The final ROE will be factored into rates using the Long Canada Bond Forecast based on *Consensus Forecasts* (as detailed below) and Bank of Canada data three months in advance of the effective date for the rate change. Therefore, for May 1 rate changes, the ROE will be based on January data – effectively *Consensus Forecasts* published during that month and Bank of Canada data for all business days during the month of January. The necessary data is available within the first or second business days after the end of the month and thus poses no delay for determining rates.

Long Canada Bond Forecast for any Period

For any period *t* the Long Canada Bond Forecast *LCBFt* can be expressed as:

$$LCBF_{t} = \left[\frac{_{10}CBF_{3,t} + _{10}CBF_{12,t}}{2}\right] + \frac{\sum_{i}(_{30}CB_{i,t} - _{10}CB_{i,t})}{I_{t}}$$

Where:

10CB₃,τ is the 3-month forecast of the 10-year Government of Canada bond yield as published in *Consensus Forecasts* at time t,

10CB12,t is the 12-month forecast of the 10-year Government of Canada bond yield as published in *Consensus Forecasts* at time t;

30CB_{i,t} is the actual rate for the 30-year Government of Canada bond yield at the close of day i (as published by the Bank of Canada) [Series V39056] during the month (this is the previous month data, the same as used for updating the ROE for natural gas distribution) corresponding to time t;

10CB_{i,t} is the actual rate for the 10-year Government of Canada bond yield at the close of day i (as published by the Bank of Canada) [Series V39055] during the month corresponding to time t, and

It is the number of business days for which published 10- and 30- Government of Canada bond yields are published during the month corresponding to time *t*.

Exhibit: 6

Tab: 1

Schedule: 4 Page: 3

Hydro 2000 Inc.

Exhibit: 6

Tab: 1 Schedule: 4

Page: 4

Hydro 2000 Inc.

Exhibit: 7

Tab: 1

Schedule: 1 Page: 1

Hydro 2000 Inc.

Ex. Tab Schedule Contents of Schedule

7 - Calculation of Revenue Deficiency or Surplus

1 Determination of Net Utility Income and Calculation

of Revenue Deficiency or Surplus

Exhibit: 7 Tab: 1 Schedule: 1

Page: 3

Hydro 2000 Inc.

OVERVIEW OF CALCULATION OF REVENUE DEFICIENCY OR SURPLUS

This exhibit presents an overview of the revenue deficiency or surplus calculations process for the 2008 test year.

Rate Class 2008 test Year Proposed Rates	Number of Customers Or Connections	Volume (kWh or kW)	Proposed Fixed Charge	Proposed Volumetric Charge	Proposed Revenue at Proposed Rates		
Residential	1005	16,514,191	\$ 10.71	\$0.0123	\$ 332,287.15		
GS less 50kW	147	5,682,016	\$ 24.78	\$0.0135	\$ 120,419.14		
GS 0ver 50 kW	12	13,280	\$ 120.28	3.4844	\$ 63,593.15		
Unmetered scattered load	6	19,951	\$ 6.00	\$0.0334	\$ 1,098.36		
STREET LIGHT	368	941	\$ 0.54	7.7596	\$ 9,686.42		
TOTAL					\$ 527,084.22		

Rate Class Bridge year Existing Rates	Number of Customers Or Connections	Volume (kWh or kW)	Proposed Fixed Charge	Proposed Volumetric Charge	Proposed Revenue at Proposed Rates
Residential	1005	16,514,191	\$ 8.20	\$0.0086	\$ 240,914.04
GS less 50kW	147	5,682,016	\$ 11.90	\$0.0098	\$ 76,675.36
GS 0ver 50 kW	12	13,280	\$ 63.79	2.3555	\$ 40,466.80
Unmetered scattered load	6	19,951	\$ 5.82	\$0.0098	\$ 614.56
STREET LIGHT	368	941	\$ 0.17	2.2284	\$ 2,847.64
TOTAL					\$ 361,518.40

Exhibit: 7 Tab: 1 Schedule: 1

Page: 3

Hydro 2000 Inc.

Determination of Net Utility Income								
	2008 Test		2008	2008 Test				
	Existing Rates		Prop	Proposed Rates		enue olus or iiciency)		
Revenue		<u> </u>						
Distribution Revenue	\$	255,277	\$	366,734	\$	-111,457		
PILS	\$	-	\$	39,350	\$	-39,350		
LV Charges	\$	106,241	\$	121,000	\$	-14,759		
Distribution Revenue	\$	361,518	\$	527,084	\$	-165,566		
Other Operating Revenue (Net)	\$	35,980	\$	35,980	\$	-		
Total Revenue	\$	397,498	\$	563,064	\$	-165,566		
					\$	-		
Costs and Expenses					\$	-		
Distribution Costs	\$	285,289	\$	285,289	\$			
Operation & Maintenance	\$	4,455	\$	4,455	\$			
Depreciation & Amortization	\$	56,569	\$	56,569	\$	-		
Property & Capital Taxes	\$	-	\$	-	\$			
Interest	\$	20,333	\$	20,333	\$	-		
Total Costs and Expenses	\$	366,646	\$	366,646	\$			
					\$	-		
Utility Income Before Income			_					
Taxes	\$	30,852	\$	196,418	\$	-165,566		
others	\$	300	\$	300	\$			
Income Taxes	\$	924	\$	924	\$			
	L				\$			
Utility Income	\$	29,628	\$	195,494	\$	-165,866		

On the previous page the first table shows a \$527,084 for the total distribution revenues with the proposed 2008 rates compare to a \$361,518 for the total distribution revenues with the existing rates. The revenue deficiency is \$165,866. Four major items are contributing to the increase of the surplus if we compare it to the old existing rates

The First item was that Hydro 2000 Inc. had a big loss carry forward until 2006 and no PILS were included in the existing rates.

Exhibit: 7

Tab: 1 Schedule: 1 Page: 3

Hydro 2000 Inc.

The Second item was that the LV charges to Hydro 2000 were under estimated by H.O.N.I. The first and second items were mentioned by letter to the Board. The variances are captured in Deferral accounts as requested by the Board.

The third item was the focus on the opening market was on the operations and all the challenges associated. Capital projects on the distribution system were delayed in the future years. Those future years are 2007 and 2008. From 2002 to 2005 capital projects performed were minimal and was for system reliability and safety.

Exhibit: 7 Tab: 1

Schedule: 1 Page: 3

Hydro 2000 Inc.

DETERMINATION OF NET UTILITY INCOME

Determination of Net Utility Income								
	2008 Test		2008	3 Test				
	Existing Rates		Prop	Proposed Rates		enue olus or iciency		
Revenue								
Distribution Revenue	\$	255,277	\$	366,734	\$	111,457		
PILS	\$	-	\$	39,350	\$	39,350		
LV Charges	\$	106,241	\$	121,000	\$	14,759		
Distribution Revenue	\$	361,518	\$	527,084	\$	165,566		
Other Operating Revenue (Net)	\$	35,980	\$	35,980	\$	-		
Total Revenue	\$	397,498	\$	563,064	\$	165,566		
					\$	-		
Costs and Expenses					\$	-		
Distribution Costs	\$	285,289	\$	285,289	\$	-		
Operation & Maintenance	\$	4,455	\$	4,455	\$	-		
Depreciation & Amortization	\$	56,569	\$	56,569	\$	-		
Property & Capital Taxes	\$		\$		\$			
Interest	\$	20,333	\$	20,333	\$	-		
Total Costs and Expenses	\$	366,646	\$	366,646	\$	-		
					\$			
Utility Income Before Income		00.050	_	100 110	_	405 500		
Taxes	\$	30,852	\$	196,418	\$	165,566		
others	\$	300	\$	300	\$	-		
Income Taxes	\$	924	\$	924	\$			
Likilita da a a a		00.000		405 404	\$	405.000		
Utility Income	\$	29,628	\$	195,494	\$	165,866		

The anticipated net profit for 2008 should be \$195,494 based on load forecast consumption.

Exhibit: 8

Tab: 1 Schedule: 1

Page: 1

Hydro 2000 Inc.

Ex. Tab Schedule Contents of Schedule

8 - Cost Allocation

- 1 1 Cost Allocation Overview
 - 2 Summary of Results and Proposed Changes

Exhibit: 8 Tab: 1

Schedule: 1 Page: 2

Hydro 2000 Inc.

COST ALLOCATION OVERVIEW

Introduction:

On September 29, 2006 the Ontario Energy Board (the "OEB") issued the Board directions on Cost Allocation Methodology for Electricity Distributors ("the Directions"). On November 15, 2006 the OEB also issued the Cost Allocation Information Filing Guidelines for Electricity Distributors ("the Guidelines"), the Cost Allocation Model ("the Model") and User Instruction (the Instructions") for the Model. The Applicant prepared this information filing consistent with The Applicant's understanding of the Directions, the Guidelines, the Model and the Instructions.

The main purpose of this cost allocation filing was to provide evidence to show The Applicant rate classifications that are being subsidized by other classes and those rate classifications that are over contributing based on the assumptions of the Model.

Background:

In the mid 1980's, Ontario Hydro, the regulator at the time, completed the last cost allocation study that reflected the distribution function but this was an integrated cost study. The integrated study reviewed the full costs of providing electricity to customers which included energy, transmission and distribution. Distribution represented only around 15% of the total costs reviewed. The results of this study assisted Ontario Hydro in developing the Rate Setting Guidelines that were used by Municipal Electric Utilities to develop the bundled rates they charged customers up until around 2000.

Under the Energy Competition Act, 1998, the electricity industry in Ontario was separated into Generation, Transmission and Distribution companies. Along with this separation the rates also needed to be unbundled to reflect the structure of the new companies. The unbundling of distribution from generation and transmission was completed in the 2000 to 2001 timeframe using the Electricity Distribution Rate Handbook Rate and the Rate Unbundling and Design Model (i.e. the RUD model). The Rate Handbook and RUD model provided a method to unbundle distribution rates from the other rates by rate classification but it did not determine whether the unbundled rates collected the cost of providing service to the rate classification. The current cost allocation process is the first time a cost allocation study has been conducted in Ontario that focuses completely on distribution to determine whether or not the distribution rates are collecting the cost of providing service to the rate classifications.

The filing was comprised of a first run ("Run 1") and a second run ("Run 2"). An optional Run 3 was available but in the Applicant's case, was not conducted. For The Applicant, Run 1 reflects the rate classifications as they were prior to May 1, 2006. Prior to May 1, the Unmetered Scattered Load ("USL") customers were included in the General Service < 50 kW rate classification. Run 2 has the USL customers pulled out of the General Service < 50 kW class to form a class of their own which is consistent with the current rate classifications used by The Applicant.

Exhibit: 8

Tab: 1 Schedule: 1

Page: 3

Hydro 2000 Inc.

In order to prepare this cost allocation filing, The Applicant used the services of Hydro One to prepare load data profiles by rate classification.

Exhibit: 8

Tab: 1 Schedule: 2 Page: 1

Hydro 2000 Inc.

SUMMARY OF RESULTS AND PROPOSED CHANGES

The cost/financial data used in the Model is consistent with the Applicant's cost data that supports the 2006 approved distribution rates. Consistent with the Guidelines, The Applicant assets were broken out into primary and secondary distribution functions. The breakout of assets, capital contributions, depreciation, accumulated depreciation, customer data and load data by primary, line transformer and secondary categories were developed from the best data available from The Applicant's customer and financial information systems.

The results of a cost allocation are typically presented in the form of revenue to cost ratios. The ratio is shown by rate classification and is the percentage of distribution revenue collected by rate classification compared to the costs allocated to the classification. The percentage shows the rate classifications that are being subsidized and those that are over contributing. A percentage of less than 100% means the rate classification is under collecting and is being subsidized by other classes. A percentage of greater than 100% indicates the rate classification is over collecting the cost assigned to the classification and is subsidizing other classes.

The following outlines the revenue to cost ratios for Run 2. The results for Run 1 are similar. In Run 1, the USL rate classification is combined with the General Service < 50 kW rate classification. As a result, the cost to revenue ratio in Run 1 for General Service < 50 kW customers is 78.27% and there is no ratio for USL. All other ratios in Run 1 are essentially the same as Run 2.

SUMMARY OF RESULTS

	Revenue to Cost	(\$Being Subsidized)/
Rate Classification	Ratio	\$Over Contributing
Residential	115.00%	\$24,623
General Service <50 kW	81.44%	-\$13,543
General Service >50 kW	94.50%	-\$1,438
Street Lights	50.34%	-\$4,487
USL	10.49%	-\$5,155
Total	100%	\$0.00

Exhibit: 8 Tab: 1 Schedule: 2 Page: 2

Hydro 2000 Inc.

Monthly Fixed Charge Comparison

The Model produces customer unit costs per month for each rate classification. To assist with reviewing the range of current fixed monthly service charges, the Model generates three scenarios of reasonable cost-based customer unit costs for each rate classification. These unit costs are determined by the Model and compared to the current approved monthly service charge.

Scenario 1: Avoided Costs

With a strict "avoided cost" approach, only meter related costs, billing and collection costs are included. This approach has the advantage of focusing on the immediate costs of an additional customer. But no administration and general overhead costs are applied.

Scenario 2: Directly Related Customer Costs

The directly related customer costs are those costs included in the avoided cost version but an allocation of administration and general overhead costs is included.

Scenario 3: Minimum System Approach

The minimum system approach assumes that a minimum-size distribution system can be built to serve the minimum load requirements of the customer. For the purposes of this filing the minimum load requirement is assumed to be 400 watts per customer. The minimum system method involves determining the minimum size pole, conductor, cable, transformer, and service that is currently installed by the distributor. Once determined for each plant account, the minimum size distribution system is classified as customer-related costs and then used to define the monthly unit customer cost.

There are various approaches to define the minimum system. Moreover, judgment is required to address various implementation details with this methodology. The OEB cost allocation project did not seek to develop a common minimum system methodology for use by the Ontario electricity distribution sector. Instead, the results of numerous past Ontario minimum system studies were examined and approved for use in the Model.

The minimum system results are applied to the following accounts:

- Line Transformers (Account 1850)
- "Distribution" which includes poles and conductors, and is defined as Accounts 1830 -1845
- Related O&M accounts.

The density of the distributor (i.e. customers/route kilometer of line) is the major factor that determines the percentage of the above costs which are included in the customer costs. The density of The Applicant is 56 customers/km. This means The Applicant is classified as a medium density distributor. As a result, 40% of The Applicant's

Exhibit: 8 Tab: 1 Schedule: 2

Page: 3

Hydro 2000 Inc.

distribution costs (i.e. lines, poles and line transformers) are defined to be customer related cost. The monthly customer unit cost under the minimum system approach includes the directly related customer costs plus 100% of distribution costs with any administration and general overhead associated with the distribution costs.

The following outlines the monthly fixed cost comparison.

SUMMARY OF MONTHLY SERVICE CHARGE

	2006	Minimum	Directly	
Rate Classification	Approved	System	Related	Avoided Cost
	Fixed	Fixed	Fixed Charge	Fixed Charge
	Charge	Charge		
Residential	8.13	10.71	8.50	3.88
General Service <50 kW	11.80	34.78	34.33	16.19
General Service >50 kW	63.22	116.87	120.28	55.34
Street Lights	.17	2.14	.05	.02
USL	5.77	151.5	157.24	70.47

In reviewing the results produced by the Cost Allocation Model, The Applicant proposes the following Monthly fixed Charges.

PROPOSED MONTHLY SERVICE CHARGE

	2006	Proposed
Rate Classification	Approved	Fixed
Trate Glassification	Fixed	Charge
		Charge
	Charge	
Residential	8.13	10.71
General Service <50 kW	11.80	24.78
General Service >50 kW	63.22	120.28
Street Lights	0.17	0.54
USL	5.77	10.34

The Applicant proposes to move its Monthly Fixed Charges to Maximum fixed Charges of Cost Allocation in the scenario 3 of the Minimum System Approach. Some classes were move to the maximum and some classes were moved partially to the maximum to minimize major bill impact. In moving the Fixed charges the intent is to move to a 40% to 60% level of the class revenue requirement.

Exhibit: 9 Tab: 1

Schedule: 1

Page: 1

<u>Ex</u> .	<u>Tab</u>	<u>Schedule</u>	Contents of Schedule
9 - Rate Des	<u>ign</u>		
	1	1	Rate Design Overview
		2	Rate Mitigation
		3	Existing Rate Classes
		4	Existing Rate Schedule
		5	Proposed Rate Classes if different than existing
		6	Proposed Rate Schedule
		7	Summary of Proposed Rate Schedule
		8	Reconciliation of Rate Class Revenue to total Revenue Requirement
		9	Rate Impacts
		10	Proposed Changes to Terms and Conditions of Service

Exhibit: 9

Tab: 1 Schedule: 1 Page: 2

Hydro 2000 Inc.

RATE DESIGN OVERVIEW

This exhibit presents an overview of the process to allocate The Applicant's related revenue requirement costs for the forecasted 2008 test year to the respective rate classes. This exhibit documents, by rate class, the proposed changes in distribution for the 2008 test year.

The total revenue requirement of \$529,522 for 2008 Test, excluding miscellaneous revenues, was calculated in Exhibit 9, Tab 1, Schedule 8 and needs to be allocated to the respective customer classes for consideration in respect of rate design. The method of allocating these costs to the customer classes uses various steps to apportion the costs amongst all LDC customer class

The following steps are followed to derive the revenues collected from fixed and variable rates under the proposed 2008 rates.

- Step 1 Based on information in the cost allocation section revenues are allocated to each rate class to reflect the proposed movement in revenue cost ratios
- Step 2 Based on the proposed monthly service charge also outlined in the cost allocation section the fixed revenues for each rate class is determined.
- Step 3 The amount in step 2 is subtracted from the amount in Step 1 and divided by the 2008 forecasted energy sales by class to determine the volumetric charge by customer class.

Exhibit: 9

Tab: 1 Schedule: 2

Page: 1

Hydro 2000 Inc.

RATE MITIGATION

Hydro 2000 Inc. does not apply for any rate mitigation.

Exhibit: 9

Tab: 1 Schedule: 3

Page: 1

Hydro 2000 Inc.

EXISTING RATE CLASSES

Residential

This class refers to the supply of electrical energy to detached and semi-detached residential buildings as well as farms as defined in the local zoning by-laws. Where the residential dwelling comprises the entire electrical load of a farm, it is defined as a residential service. Where electricity is provided to a combined residential and business (including agricultural usage) and the service does not provide for separate metering, the classification shall be at the discretion of Hydro 2000 and shall be based on such considerations as the estimated predominant consumption.

General Service Less Than 50kW

This class refers to customers who do not qualify as residential customers and whose monthly average peak demand in the preceding twelve months is less than 50kW. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. Note: Apartment buildings or multi-unit complexes and subdivisions are treated as General Service (Above 50 kW).

General Service Over 50W

This class refers to customers whose monthly average peak demand in the preceding twelve months is in over 50kW. There are two sub categories within this class, those being non-interval and interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation.

Unmetered Scattered Load

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, pedestrian X-Walk signals/beacons, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption.

Street Lighting

All services supplied to street lighting equipment owned by or operated for the Municipality, the Region or the Province of Ontario shall be classified as Street Lighting Service. Street Lighting plant, facilities, or equipment owned by the customer are subject to the Electrical Safety Authority (ESA) requirements and Hydro 2000 specifications.

Exhibit: 9 Tab: 1 Schedule: 4 Page: 1

Hydro 2000 Inc.

EXISTING RATE SCHEDULE

Residential Service Charge Distribution Volumetric Rate Regulatory Asset Recovery Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Regulated Price Plan – Administration Charge	S/kWh \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh	Rate \$ 8.20 \$0.0086 \$0.0098 \$0.0057 \$0.0050 \$0.0052 \$0.0010 \$0.25
General Service less 50kW Service Charge Distribution Volumetric Rate Regulatory Asset Recovery Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Regulated Price Plan – Administration Charge	\$ \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh	\$11.80 \$0.0098 \$0.0075 \$0.0052 \$0.0045 \$0.0052 \$0.0010 \$0.25
General Service Over 50kW Service Charge Distribution Volumetric Rate Regulatory Asset Recovery Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Regulated Price Plan – Administration Charge	\$ \$/kW \$/kWh \$/kWh \$/kWh \$/kWh	\$63.79 \$2.3555 \$2.2403 \$2.1218 \$1.7882 \$0.0052 \$0.0010 \$0.25
Unmetered Scattered Load Service Charge Distribution Volumetric Rate Regulatory Asset Recovery Retail Transmission Rate – Network Service Rate Retail Transmission Rate – Line and Transformation Connection Service Rate Wholesale Market Service Rate Rural Rate Protection Charge Regulated Price Plan – Administration Charge	\$ \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh \$/kWh	\$5.82 \$0.0098 \$0.0075 \$0.0052 \$0.0045 \$0.0052 \$0.0010 \$0.25

Exhibit: 9

Tab: 1 Schedule: 4

Page: 2

Hydro 2000 Inc.

Street Light

Service Charge	\$	\$0.17
Distribution Volumetric Rate	\$/kW	2.2284
Regulatory Asset Recovery	\$/kW	-\$1.7676
Retail Transmission Rate – Network Service Rate	\$/kWh	\$1.6002
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	\$1.3824
Wholesale Market Service Rate	\$/kWh	\$0.0052
Rural Rate Protection Charge	\$/kWh	\$0.0010
Regulated Price Plan – Administration Charge	\$	\$0.25

Exhibit: 9

Tab: 1 Schedule: 5

Page: 1

Hydro 2000 Inc.

PROPOSED RATE CLASSES

Residential

This class refers to the supply of electrical energy to detached and semi-detached residential buildings as well as farms as defined in the local zoning by-laws. Where the residential dwelling comprises the entire electrical load of a farm, it is defined as a residential service. Where electricity is provided to a combined residential and business (including agricultural usage) and the service does not provide for separate metering, the classification shall be at the discretion of Hydro 2000 and shall be based on such considerations as the estimated predominant consumption.

General Service Less Than 50kW

This class refers to customers who do not qualify as residential customers and whose monthly average peak demand in the preceding twelve months is less than 50kW. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation. Note: Apartment buildings or multi-unit complexes and subdivisions are treated as General Service (Above 50 kW).

General Service Over 50W

This class refers to customers whose monthly average peak demand in the preceding twelve months is in over 50kW. There are two sub categories within this class, those being non-interval and interval metered accounts. For new customers without prior billing history, the peak demand will be based on 90% of the proposed capacity or installed transformation.

Unmetered Scattered Load

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, pedestrian X-Walk signals/beacons, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption.

Street Lighting

All services supplied to street lighting equipment owned by or operated for the Municipality, the Region or the Province of Ontario shall be classified as Street Lighting Service. Street Lighting plant, facilities, or equipment owned by the customer are subject to the Electrical Safety Authority (ESA) requirements and Hydro 2000 specifications.

Exhibit: 9 Tab: 1 Schedule: 6 Page: 1

Hydro 2000 Inc.

PROPOSED RATE SCHEDULE

Beetdenstal		Data
Residential	UOM •	Rate
Service Charge	\$	\$10.71
Distribution Volumetric Rate	\$/kWh	\$0.0123
Regulatory Asset Recovery	\$/kWh	\$0.0032
Retail Transmission Rate – Network Service Rate	\$/kWh	\$0.0057
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	\$0.0050
Wholesale Market Service Rate	\$/kWh	\$0.0052
Rural Rate Protection Charge	\$/kWh	\$0.0010
Regulated Price Plan – Administration Charge	\$	\$0.25
General Service less 50kW		
Service Charge	\$	\$24.78
Distribution Volumetric Rate	\$/kWh	\$0.0135
Regulatory Asset Recovery	\$/kWh	\$0.0029
Retail Transmission Rate – Network Service Rate	\$/kWh	\$0.0052
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	\$0.0045
Wholesale Market Service Rate	\$/kWh	\$0.0052
Rural Rate Protection Charge	\$/kWh	\$0.0010
Regulated Price Plan – Administration Charge	\$	\$0.25
General Service Over 50kW		
Service Charge	\$	\$120.28
Distribution Volumetric Rate	\$/kW	\$3.4844
Regulatory Asset Recovery	\$/kW	\$1.0468
Retail Transmission Rate – Network Service Rate	\$/kWh	\$2.1218
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	\$1.7882
Wholesale Market Service Rate	\$/kWh	\$0.0052
Rural Rate Protection Charge	\$/kWh	\$0.0010
Regulated Price Plan – Administration Charge	\$	\$0.25
Unmetered Scattered Load		
Service Charge	\$	\$6.00
Distribution Volumetric Rate	\$/kWh	\$0.0334
Regulatory Asset Recovery	\$/kWh	\$0.0029
Retail Transmission Rate – Network Service Rate	\$/kWh	\$0.0052
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	\$0.0045
Wholesale Market Service Rate	\$/kWh	\$0.0052
Rural Rate Protection Charge	\$/kWh	\$0.0010
Regulated Price Plan – Administration Charge	\$	\$0.25

Exhibit: 9

Tab: 1 Schedule: 6

Page: 2

Hydro 2000 Inc.

Street Light

•		
Service Charge	\$	\$0.54
Distribution Volumetric Rate	\$/kW	7.7596
Regulatory Asset Recovery	\$/kW	\$0.406
Retail Transmission Rate – Network Service Rate	\$/kWh	\$1.6002
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	\$1.3824
Wholesale Market Service Rate	\$/kWh	\$0.0052
Rural Rate Protection Charge	\$/kWh	\$0.0010
Regulated Price Plan – Administration Charge	\$	\$0.25

Exhibit: 9 Tab: 1

Schedule: 7

Page: 1

Hydro 2000 Inc.

SUMMARY OF PROPOSED RATE SCHEDULE

The following is a summary of the proposed changes to The Applicant's rates for the 2008 test year. The Applicant is forecasting a distribution related delivery deficiency for the 2008 test year of \$165,866.

The impact on each rate class is described below.

Residential

The proposed changes to residential class are summarized below.

Residential	2006 Board Approved	2008 Proposed	% change
	\$8.13	\$10.71	31.7%
Service Charge			
	\$0.0085	\$0.0124	44.7%
Distribution Volumetric Rate			
	\$0.0098	\$0.0032	-67.3%
Regulatory Asset Rate			

In order to increase the fixed cost recovery through the monthly fixed charge, The Applicant's proposing to increase the monthly customer charge by \$2.58 in the 2008 test year. The net impact of these changes is a decrease in the revenue-to-cost ratios for rate Residential customers (from 66.35% to 63.52%).

The overall bill impact on a typical residential customer with a consumption of 1000 kWhs is an increase of 0.0% shown in detail in Exhibit 9, Tab1, Schedule 10.

Exhibit: 9 Tab: 1 Schedule: 7 Page: 2

Hydro 2000 Inc.

General Service less than 50 kW

The proposed changes to General Service less than 50 kW class are summarized below.

	2006 Board Approved	2008 Proposed	% change
GS less 50kW			
	\$11.90	\$24.78	108.24%
Service Charge			
	\$0.0097	\$0.0136	39.18%
Distribution Volumetric Rate			
	\$0.0075	\$0.0029	-61.33%
Regulatory Asset Rate			

In order to increase the fixed cost recovery through the monthly fixed charge, The Applicant's proposing to increase the monthly customer charge by \$12.88 in the 2008 test year. The net impact of these changes is an increase in the revenue-to-cost ratios for rate General Service Less Than 50 kW customers (from 21.63% to 23.89%).

The overall bill impact on a typical General Service less than 50 kW customer with a consumption of 5000 kWhs is an increase of 2.0% shown in detail in Exhibit 9, Tab1, Schedule 10.

General Service over than 50 kW

The proposed changes to General Service over 50 kW class are summarized below.

	2006 Board Approved	2008 Proposed	% change
GS over 50kW			
	\$63.22	\$120.28	90.26%
Service Charge			
	\$2.3345	\$3.4978	49.26%
Distribution Volumetric Rate			
	\$2.2403	\$1.0468	-53.27%
Regulatory Asset Rate			

In order to increase the fixed cost recovery through the monthly fixed charge, The Applicant's proposing to increase the monthly customer charge by \$57.06 in the 2008 test year. The net impact of these changes is a decrease in the revenue-to-cost ratios for rate to General Service Over 50 kW customers (from 11.25% to 10.25%).

Exhibit: 9 Tab: 1 Schedule: 7

Page: 3

Hydro 2000 Inc.

The overall bill impact on a typical General Service less over 50 kW customer with a consumption of 40,000 kWhs and 100 kWs is an increase of 1.7% shown in detail in Exhibit 9, Tab1, Schedule 10.

Unmetered Scattered Load

The proposed changes to Unmetered Scattered Load class are summarized below.

	2006 Board Approved	2008 Proposed	% change
Unmetered scattered load			
	\$5.77	\$6.00	3.99%
Service Charge			
	\$0.0097	\$0.0336	244.33%
Distribution Volumetric Rate			
	\$0.0075	\$0.0029	-61.33%
Regulatory Asset Rate			

In order to increase the fixed cost recovery through the monthly fixed charge, The Applicant's proposing to increase the monthly customer charge by \$4.57 in the 2008 test year. The net impact of these changes is an increase in the revenue-to-cost ratios for rate to Unmetered Scattered Load customers (from .17% to .25%).

The overall bill impact on a typical Unmetered Scattered Load customer with a consumption of 500 kWhs and 0 kWs is an increase of 14.9% shown in detail in Exhibit 9, Tab1, Schedule 10.

Exhibit: 9 Tab: 1

Schedule: 7

Page: 4

Hydro 2000 Inc.

Street Light

The proposed changes to Street Light are summarized below.

	2006 Board Approved	2008 Proposed	% change
Street light			
	\$0.170	\$0.54	217.65%
Service Charge			
	\$2.2085	\$7.7980	251.35%
Distribution Volumetric Rate			
	(\$1.7676)	\$0.4060	-122.97%
Regulatory Asset Rate			

In order to increase the fixed cost recovery through the monthly fixed charge, The Applicant's proposing to increase the monthly customer charge by \$0.54 in the 2008 test year. The net impact of these changes is an increase in the revenue-to-cost ratios for rate to Street Light customers (from .79% to 2.09%).

The overall bill impact on a typical Unmetered Scattered Load customer with a consumption of 25,000 kWhs and 77 kWs is an increase of 21.9% shown in detail in Exhibit 9, Tab1, Schedule 10.

Exhibit: 9 Tab: 1

Schedule: 8

Page: 1

Hydro 2000 Inc.

RECONCILLIATION OF RATE CLASS REVENUE TO TOTAL REVENUE REQUIREMENT

Rate Class	Number of Customers Or Connections	Volume (kWh or kW)	Proposed Fixed Charge	Proposed Volumetric Charge	Proposed Revenue at Proposed Rates		
Residential	1005	16,514,191	\$ 10.71	\$0.0123	\$ 332,287.15		
GS less 50kW	147	5,682,016	\$ 24.78	\$0.0135	\$ 120,419.14		
GS 0ver 50 kW	12	13,280	\$ 120.28	3.4844	\$ 63,593.15		
Unmetered scattered load	6	19,951	\$ 6.00	\$0.0334	\$ 1,098.36		
Rate Class 5	368	941	\$ 0.54	7.7596	\$ 9,686.42		
TOTAL					\$ 527,084.22		

Exhibit: 9

Tab: 1 Schedule: 9

Page: 1

Hydro 2000 Inc.

RATE IMPACTS

This exhibit presents the results of the assessment of customer total bill impacts by level of consumption by customer per rate class and per the total customer class.

Impacts are derived using the applicable May 1, 2007 rates and the proposed 2008 distribution rates, (including Rate Rider for the recovery of Regulatory Asset Variance Accounts) and maintaining the 2006 Retail Transmission Service Rates at existing 2006 levels.

The total bill impacts are calculated for the average customer per residential rate class and for General Service Classes at certain levels of consumption. The rates are assessed on the basis of moving to the proposed distribution rates derived in Exhibit 9, Tab 1, Schedule 7, including the Rate Rider for the recovery of regulatory asset variance accounts derived in Exhibit 5, Tab 1, Schedule 3. The total bill impacts are premised on the distribution rates arising from the new revenue requirements. All other non-distribution charges, except RTSR charges, are kept unchanged.

The bill impact includes Commodity prices.

Exhibit: 9

Tab: 1 Schedule: 9

Page: 2

Residential			2007 BILL			2008 BILL	-	IMPACT		
100 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill
Monthly Service Charge				8.20000			10.71	2.51	30.6%	12.0%
Distribution	kWh	100	0.00860	0.86000	100	0.01230	1.23	0.37	43.0%	1.8%
Regulatory Asset Recovery	kWh	100	0.00980	0.98	100	0.00320	0.32	(0.66)	-67.3%	-3.2%
Retail Transmission - Network	kWh	106	0.00570	0.60	107	0.00570	0.61	0.00	0.6%	0.0%
Retail Transmission -Connection	kWh	106	0.00500	0.53	107	0.00500	0.53	0.00	0.6%	0.0%
Wholesale Market Service	kWh	106	0.00520	0.55	107	0.00520	0.55	0.00	0.6%	0.0%
Rural Rate Protection Charge	kWh	106	0.00100	0.11	107	0.00100	0.11	0.00	0.6%	0.0%
Debt Retirement Charge	kWh	100	0.00700	0.70	100	0.00700	0.70	0.00	0.0%	0.0%
Cost of Power Commodity	kWh	106	0.05704	6.05	107	0.05704	6.08	0.03	0.6%	0.2%
Total Bill				18.58			20.84	2.26	12.2%	10.9%

Residential		2007 BILL				2008 BILL	-	IMPACT			
250 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				8.20			10.71	2.51	30.6%	7.0%	
Distribution	kWh	250	0.00860	2.15	250	0.01230	3.08	0.93	43.0%	2.6%	
Regulatory Asset Recovery	kWh	250	0.00980	2.45	250	0.00320	0.80	(1.65)	-67.3%	-4.6%	
Retail Transmission - Network	kWh	265	0.00570	1.51	267	0.00570	1.52	0.01	0.6%	0.0%	
Retail Transmission -Connection	kWh	265	0.00500	1.33	267	0.00500	1.33	0.01	0.6%	0.0%	
Wholesale Market Service	kWh	265	0.00520	1.38	267	0.00520	1.39	0.01	0.6%	0.0%	
Rural Rate Protection Charge	kWh	265	0.00100	0.27	267	0.00100	0.27	0.00	0.6%	0.0%	
Debt Retirement Charge	kWh	250	0.00700	1.75	250	0.00700	1.75	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	265	0.05704	15.12	267	0.05704	15.20	0.09	0.6%	0.2%	
Total Bill				34.15			36.04	1.90	5.6%	5.3%	

Exhibit: 9

Tab: 1

Schedule: 9 Page: 3

Residential			2007 BILL			2008 BILL	-	IMPACT			
500 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				8.20			10.71	2.51	30.6%	4.1%	
Distribution	kWh	500	0.00860	4.30	500	0.01230	6.15	1.85	43.0%	3.0%	
Regulatory Asset Recovery	kWh	500	0.00980	4.90	500	0.00320	1.60	(3.30)	-67.3%	-5.4%	
Retail Transmission - Network	kWh	530	0.00570	3.02	533	0.00570	3.04	0.02	0.6%	0.0%	
Retail Transmission -Connection	kWh	530	0.00500	2.65	533	0.00500	2.67	0.02	0.6%	0.0%	
Wholesale Market Service	kWh	530	0.00520	2.76	533	0.00520	2.77	0.02	0.6%	0.0%	
Rural Rate Protection Charge	kWh	530	0.00100	0.53	533	0.00100	0.53	0.00	0.6%	0.0%	
Debt Retirement Charge	kWh	500	0.00700	3.50	500	0.00700	3.50	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	530	0.05704	30.23	533	0.05704	30.41	0.17	0.6%	0.3%	
Total Bill		<u> </u>	•	60.09			61.37	1.28	2.1%	2.1%	

Residential			2007 BILL			2008 BILL	-	IMPACT			
750 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				8.20			10.71	2.51	30.6%	2.9%	
Distribution	kWh	750	0.00860	6.45	750	0.01230	9.23	2.78	43.0%	3.2%	
Regulatory Asset Recovery	kWh	750	0.00980	7.35	750	0.00320	2.40	(4.95)	-67.3%	-5.7%	
Retail Transmission - Network	kWh	795	0.00570	4.53	800	0.00570	4.56	0.03	0.6%	0.0%	
Retail Transmission -Connection	kWh	795	0.00500	3.98	800	0.00500	4.00	0.02	0.6%	0.0%	
Wholesale Market Service	kWh	795	0.00520	4.13	800	0.00520	4.16	0.02	0.6%	0.0%	
Rural Rate Protection Charge	kWh	795	0.00100	0.80	800	0.00100	0.80	0.00	0.6%	0.0%	
Debt Retirement Charge	kWh	750	0.00700	5.25	750	0.00700	5.25	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	795	0.05704	45.35	800	0.05704	45.61	0.26	0.6%	0.3%	
Total Bill				86.04			86.71	0.67	0.8%	0.8%	

Exhibit: 9

Tab: 1

Schedule: 9 Page: 4

Residential			2007 BILL			2008 BILL		IMPACT			
1000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				8.20			10.71	2.51	30.6%	2.2%	
Distribution	kWh	1,000	0.00860	8.60	1,000	0.01230	12.30	3.70	43.0%	3.3%	
Regulatory Asset Recovery	kWh	1,000	0.00980	9.80	1,000	0.00320	3.20	(6.60)	-67.3%	-5.9%	
Retail Transmission - Network	kWh	1,060	0.00570	6.04	1,066	0.00570	6.08	0.03	0.6%	0.0%	
Retail Transmission -Connection	kWh	1,060	0.00500	5.30	1,066	0.00500	5.33	0.03	0.6%	0.0%	
Wholesale Market Service	kWh	1,060	0.00520	5.51	1,066	0.00520	5.54	0.03	0.6%	0.0%	
Rural Rate Protection Charge	kWh	1,060	0.00100	1.06	1,066	0.00100	1.07	0.01	0.6%	0.0%	
Debt Retirement Charge	kWh	1,000	0.00700	7.00	1,000	0.00700	7.00	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	1,060	0.05704	60.47	1,066	0.05704	60.81	0.34	0.6%	0.3%	
Total Bill				111.98			112.04	0.05	0.0%	0.0%	

Residential			2007 BILL			2008 BILL	-	IMPACT			
1500 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				8.20			10.71	2.51	30.6%	1.5%	
Distribution	kWh	1,500	0.00860	12.90	1,500	0.01230	18.45	5.55	43.0%	3.4%	
Regulatory Asset Recovery	kWh	1,500	0.00980	14.70	1,500	0.00320	4.80	(9.90)	-67.3%	-6.1%	
Retail Transmission - Network	kWh	1,590	0.00570	9.06	1,599	0.00570	9.12	0.05	0.6%	0.0%	
Retail Transmission -Connection	kWh	1,590	0.00500	7.95	1,599	0.00500	8.00	0.05	0.6%	0.0%	
Wholesale Market Service	kWh	1,590	0.00520	8.27	1,599	0.00520	8.32	0.05	0.6%	0.0%	
Rural Rate Protection Charge	kWh	1,590	0.00100	1.59	1,599	0.00100	1.60	0.01	0.6%	0.0%	
Debt Retirement Charge	kWh	1,500	0.00700	10.50	1,500	0.00700	10.50	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	1,590	0.05704	90.70	1,599	0.05704	91.22	0.51	0.6%	0.3%	
Total Bill				163.88			162.70	(1.17)	-0.7%	-0.7%	

Exhibit: 9

Tab: 1

Schedule: 9

Page: 5

Residential			2007 BILL			2008 BILL	-	IMPACT			
2000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				8.20			10.71	2.51	30.6%	1.2%	
Distribution	kWh	2,000	0.00860	17.20	2,000	0.01230	24.60	7.40	43.0%	3.5%	
Regulatory Asset Recovery	kWh	2,000	0.00980	19.60	2,000	0.00320	6.40	(13.20)	-67.3%	-6.2%	
Retail Transmission - Network	kWh	2,120	0.00570	12.09	2,132	0.00570	12.15	0.07	0.6%	0.0%	
Retail Transmission -Connection	kWh	2,120	0.00500	10.60	2,132	0.00500	10.66	0.06	0.6%	0.0%	
Wholesale Market Service	kWh	2,120	0.00520	11.03	2,132	0.00520	11.09	0.06	0.6%	0.0%	
Rural Rate Protection Charge	kWh	2,120	0.00100	2.12	2,132	0.00100	2.13	0.01	0.6%	0.0%	
Debt Retirement Charge	kWh	2,000	0.00700	14.00	2,000	0.00700	14.00	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	2,120	0.05704	120.94	2,132	0.05704	121.62	0.68	0.6%	0.3%	
Total Bill		-		215.77			213.36	(2.40)	-1.1%	-1.1%	

General Service <50 kW			2007 BILL			2008 BILL	-	IMPACT			
1000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				11.80			24.78	12.98	110.0%	10.3%	
Distribution	kWh	1,000	0.00980	9.80	1,000	0.01350	13.50	3.70	37.8%	2.9%	
Regulatory Asset Recovery	kWh	1,000	0.00750	7.50	1,000	0.00290	2.90	(4.60)	-61.3%	-3.7%	
Retail Transmission - Network	kWh	1,060	0.00520	5.51	1,066	0.00520	5.54	0.03	0.6%	0.0%	
Retail Transmission -Connection	kWh	1,060	0.00450	4.77	1,066	0.00450	4.80	0.03	0.6%	0.0%	
Wholesale Market Service	kWh	1,060	0.00520	5.51	1,066	0.00520	5.54	0.03	0.6%	0.0%	
Rural Rate Protection Charge	kWh	1,060	0.00100	1.06	1,066	0.00100	1.07	0.01	0.6%	0.0%	
Debt Retirement Charge	kWh	1,000	0.00700	7.00	1,000	0.00700	7.00	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	1,060	0.05704	60.47	1,066	0.05704	60.81	0.34	0.6%	0.3%	
Total Bill		-		113.42			125.94	12.52	11.0%	9.9%	

Exhibit: 9

Tab: 1

Schedule: 9 Page: 6

General Service <50 kW			2007 BILL			2008 BILL	-	IMPACT			
2000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				11.80			24.78	12.98	110.0%	5.7%	
Distribution	kWh	2,000	0.00980	19.60	2,000	0.01350	27.00	7.40	37.8%	3.3%	
Regulatory Asset Recovery	kWh	2,000	0.00750	15.00	2,000	0.00290	5.80	(9.20)	-61.3%	-4.1%	
Retail Transmission - Network	kWh	2,120	0.00520	11.03	2,132	0.00520	11.09	0.06	0.6%	0.0%	
Retail Transmission -Connection	kWh	2,120	0.00450	9.54	2,132	0.00450	9.59	0.05	0.6%	0.0%	
Wholesale Market Service	kWh	2,120	0.00520	11.03	2,132	0.00520	11.09	0.06	0.6%	0.0%	
Rural Rate Protection Charge	kWh	2,120	0.00100	2.12	2,132	0.00100	2.13	0.01	0.6%	0.0%	
Debt Retirement Charge	kWh	2,000	0.00700	14.00	2,000	0.00700	14.00	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	2,120	0.05704	120.94	2,132	0.05704	121.62	0.68	0.6%	0.3%	
Total Bill		-		215.05			227.10	12.06	5.6%	5.3%	

General Service <50 kW			2007 BILL			2008 BILL	-	IMPACT			
5000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				11.80			24.78	12.98	110.0%	2.4%	
Distribution	kWh	5,000	0.00980	49.00	5,000	0.01350	67.50	18.50	37.8%	3.5%	
Regulatory Asset Recovery	kWh	5,000	0.00750	37.50	5,000	0.00290	14.50	(23.00)	-61.3%	-4.3%	
Retail Transmission - Network	kWh	5,301	0.00520	27.56	5,331	0.00520	27.72	0.16	0.6%	0.0%	
Retail Transmission -Connection	kWh	5,301	0.00450	23.85	5,331	0.00450	23.99	0.14	0.6%	0.0%	
Wholesale Market Service	kWh	5,301	0.00520	27.56	5,331	0.00520	27.72	0.16	0.6%	0.0%	
Rural Rate Protection Charge	kWh	5,301	0.00100	5.30	5,331	0.00100	5.33	0.03	0.6%	0.0%	
Debt Retirement Charge	kWh	5,000	0.00700	35.00	5,000	0.00700	35.00	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	5,301	0.05704	302.34	5,331	0.05704	304.05	1.71	0.6%	0.3%	
Total Bill		_		519.92			530.59	10.67	2.1%	2.0%	

Exhibit: 9

Tab: 1

Schedule: 9 Page: 7

General Service <50 kW			2007 BILL	-		2008 BILL			IMPACT			
10000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill		
Monthly Service Charge				11.80			24.78	12.98	110.0%	1.3%		
Distribution	kWh	10,000	0.00980	98.00	10,000	0.01350	135.00	37.00	37.8%	3.6%		
Regulatory Asset Recovery	kWh	10,000	0.00750	75.00	10,000	0.00290	29.00	(46.00)	-61.3%	-4.4%		
Retail Transmission - Network	kWh	10,601	0.00520	55.13	10,661	0.00520	55.44	0.31	0.6%	0.0%		
Retail Transmission -Connection	kWh	10,601	0.00450	47.70	10,661	0.00450	47.97	0.27	0.6%	0.0%		
Wholesale Market Service	kWh	10,601	0.00520	55.13	10,661	0.00520	55.44	0.31	0.6%	0.0%		
Rural Rate Protection Charge	kWh	10,601	0.00100	10.60	10,661	0.00100	10.66	0.06	0.6%	0.0%		
Debt Retirement Charge	kWh	10,000	0.00700	70.00	10,000	0.00700	70.00	0.00	0.0%	0.0%		
Cost of Power Commodity	kWh	10,601	0.05704	604.68	10,661	0.05704	608.10	3.42	0.6%	0.3%		
Total Bill		-		1,028.04			1,036.39	8.36	0.8%	0.8%		

General Service <50 kW			2007 BILL		2008 BILL			IMPACT		
15000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill
Monthly Service Charge				11.80			24.78	12.98	110.0%	0.8%
Distribution	kWh	15,000	0.00980	147.00	15,000	0.01350	202.50	55.50	37.8%	3.6%
Regulatory Asset Recovery	kWh	15,000	0.00750	112.50	15,000	0.00290	43.50	(69.00)	-61.3%	-4.5%
Retail Transmission - Network	kWh	15,902	0.00520	82.69	15,992	0.00520	83.16	0.47	0.6%	0.0%
Retail Transmission -Connection	kWh	15,902	0.00450	71.56	15,992	0.00450	71.96	0.41	0.6%	0.0%
Wholesale Market Service	kWh	15,902	0.00520	82.69	15,992	0.00520	83.16	0.47	0.6%	0.0%
Rural Rate Protection Charge	kWh	15,902	0.00100	15.90	15,992	0.00100	15.99	0.09	0.6%	0.0%
Debt Retirement Charge	kWh	15,000	0.00700	105.00	15,000	0.00700	105.00	0.00	0.0%	0.0%
Cost of Power Commodity	kWh	15,902	0.05704	907.02	15,992	0.05704	912.16	5.13	0.6%	0.3%
Total Bill		_		1,536.16			1,542.20	6.04	0.4%	0.4%

Exhibit: 9

Tab: 1

Schedule: 9

Page: 8

General Service >50 kW			2007 BILL	=		2008 BILL			IMPACT			
60 kW 15,000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill		
Monthly Service Charge				63.79			120.28	56.49	88.6%	3.2%		
Distribution	kW	60	2.35550	141.33	60	3.48440	209.06	67.73	47.9%	3.9%		
Regulatory Asset Recovery	kW	60	2.24030	134.42	60	1.04680	62.81	(71.61)	-53.3%	-4.1%		
Retail Transmission - Network	kW	64	2.12180	134.96	64	2.12180	135.72	0.76	0.6%	0.0%		
Retail Transmission -Connection	kW	64	1.78820	113.74	64	1.78820	114.38	0.64	0.6%	0.0%		
Wholesale Market Service	kWh	15,902	0.00520	82.69	15,992	0.00520	83.16	0.47	0.6%	0.0%		
Rural Rate Protection Charge	kWh	15,902	0.00100	15.90	15,992	0.00100	15.99	0.09	0.6%	0.0%		
Debt Retirement Charge	kWh	15,000	0.00700	105.00	15,000	0.00700	105.00	0.00	0.0%	0.0%		
Cost of Power Commodity	kWh	15,902	0.05704	907.02	15,992	0.05704	912.16	5.13	0.6%	0.3%		
Total Bill				1,698.85			1,758.56	59.71	3.5%	3.4%		

General Service >50 kW			2007 BILL	_		2008 BILI	L	IMPACT		
100 kW 40,000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill
Monthly Service Charge				63.79			120.28	56.49	88.6%	1.4%
Distribution	kW	100	2.35550	235.55	100	3.48440	348.44	112.89	47.9%	2.8%
Regulatory Asset Recovery	kW	100	2.24030	224.03	100	1.04680	104.68	(119.35)	-53.3%	-3.0%
Retail Transmission - Network	kW	106	2.12180	224.93	107	2.12180	226.21	1.27	0.6%	0.0%
Retail Transmission -Connection	kW	106	1.78820	189.57	107	1.78820	190.64	1.07	0.6%	0.0%
Wholesale Market Service	kWh	42,404	0.00520	220.50	42,644	0.00520	221.75	1.25	0.6%	0.0%
Rural Rate Protection Charge	kWh	42,404	0.00100	42.40	42,644	0.00100	42.64	0.24	0.6%	0.0%
Debt Retirement Charge	kWh	40,000	0.00700	280.00	40,000	0.00700	280.00	0.00	0.0%	0.0%
Cost of Power Commodity	kWh	42,404	0.05704	2,418.72	42,644	0.05704	2,432.41	13.69	0.6%	0.3%
Total Bill		-		3,899.50			3,967.05	67.55	1.7%	1.7%

Exhibit: 9

Tab: 1 Schedule: 9

Page: 9

General Service >50 kW			2007 BIL	L		2008 BIL	L	IMPACT			
500 kW 100,000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				63.79			120.28	56.49	88.6%	0.5%	
Distribution	kW	500	2.35550	1,177.75	500	3.48440	1,742.20	564.45	47.9%	4.7%	
Regulatory Asset Recovery	kW	500	2.24030	1,120.15	500	1.04680	523.40	(596.75)	-53.3%	-5.0%	
Retail Transmission - Network	kW	530	2.12180	1,124.66	533	2.12180	1,131.03	6.37	0.6%	0.1%	
Retail Transmission -Connection	kW	530	1.78820	947.84	533	1.78820	953.20	5.36	0.6%	0.0%	
Wholesale Market Service	kWh	106,010	0.00520	551.25	106,610	0.00520	554.37	3.12	0.6%	0.0%	
Rural Rate Protection Charge	kWh	106,010	0.00100	106.01	106,610	0.00100	106.61	0.60	0.6%	0.0%	
Debt Retirement Charge	kWh	100,000	0.00700	700.00	100,000	0.00700	700.00	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	106,010	0.05704	6,046.81	106,610	0.05704	6,081.03	34.22	0.6%	0.3%	
Total Bill		_		11,838.26			11,912.12	73.86	0.6%	0.6%	

General Service >50 kW			2007 BIL	L		2008 BILL			IMPACT			
1,000 kW 400,000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill		
Monthly Service Charge				63.79			120.28	56.49	88.6%	0.1%		
Distribution	kW	1,000	2.35550	2,355.50	1,000	3.48440	3,484.40	1,128.90	47.9%	2.9%		
Regulatory Asset Recovery	kW	1,000	2.24030	2,240.30	1,000	1.04680	1,046.80	(1,193.50)	-53.3%	-3.1%		
Retail Transmission - Network	kW	1,060	2.12180	2,249.32	1,066	2.12180	2,262.05	12.73	0.6%	0.0%		
Retail Transmission -Connection	kW	1,060	1.78820	1,895.67	1,066	1.78820	1,906.40	10.73	0.6%	0.0%		
Wholesale Market Service	kWh	424,040	0.00520	2,205.01	426,440	0.00520	2,217.49	12.48	0.6%	0.0%		
Rural Rate Protection Charge	kWh	424,040	0.00100	424.04	426,440	0.00100	426.44	2.40	0.6%	0.0%		
Debt Retirement Charge	kWh	400,000	0.00700	2,800.00	400,000	0.00700	2,800.00	0.00	0.0%	0.0%		
Cost of Power Commodity	kWh	424,040	0.05704	24,187.24	426,440	0.05704	24,324.14	136.90	0.6%	0.4%		
Total Bill				38,420.87			38,588.00	167.13	0.4%	0.4%		

Exhibit: 9

Tab: 1 Schedule: 9

Page: 10

General Service >50 kW			2007 BILL	-		2008 BILL			IMPACT			
3,000 kW 1,000,000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill		
Monthly Service Charge				63.79			120.28	56.49	88.6%	0.1%		
Distribution	kW	3,000	2.35550	7,066.50	3,000	3.48440	10,453.20	3,386.70	47.9%	3.4%		
Regulatory Asset Recovery	kW	3,000	2.24030	6,720.90	3,000	1.04680	3,140.40	(3,580.50)	-53.3%	-3.6%		
Retail Transmission - Network	kW	3,180	2.12180	6,747.96	3,198	2.12180	6,786.15	38.19	0.6%	0.0%		
Retail Transmission -Connection	kW	3,180	1.78820	5,687.01	3,198	1.78820	5,719.20	32.19	0.6%	0.0%		
Wholesale Market Service	kWh	1,060,100	0.00520	5,512.52	1,066,100	0.00520	5,543.72	31.20	0.6%	0.0%		
Rural Rate Protection Charge	kWh	1,060,100	0.00100	1,060.10	1,066,100	0.00100	1,066.10	6.00	0.6%	0.0%		
Debt Retirement Charge	kWh	1,000,000	0.00700	7,000.00	1,000,000	0.00700	7,000.00	0.00	0.0%	0.0%		
Cost of Power Commodity	kWh	1,060,100	0.05704	60,468.10	1,066,100	0.05704	60,810.34	342.24	0.6%	0.3%		
Total Bill			-	100,326.89		•	100,639.40	312.51	0.3%	0.3%		

Street Light			2007 BILL			2008 BILI	_	IMPACT			
77 kW 25,000 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				0.17			0.54	0.37	217.6%	0.0%	
Distribution	kW	77	2.22840	171.59	77	7.75960	597.49	425.90	248.2%	15.7%	
Regulatory Asset Recovery	kW	77	-1.76760	(136.11)	77	0.40600	31.26	167.37	-123.0%	6.2%	
Retail Transmission - Network	kW	81	1.60020	129.41	81	1.60020	129.41	0.00	0.0%	0.0%	
Retail Transmission -Connection	kW	81	1.38240	111.80	81	1.38240	111.80	0.00	0.0%	0.0%	
Wholesale Market Service	kWh	26,258	0.00520	136.54	26,258	0.00520	136.54	0.00	0.0%	0.0%	
Rural Rate Protection Charge	kWh	26,258	0.00100	26.26	26,258	0.00100	26.26	0.00	0.0%	0.0%	
Debt Retirement Charge	kWh	25,000	0.00700	175.00	25,000	0.00700	175.00	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	26,258	0.05704	1,497.73	26,258	0.05704	1,497.73	0.00	0.0%	0.0%	
Total Bill				2,112.39			2,706.03	593.64	28.1%	21.9%	

Exhibit: 9

Tab: 1 Schedule: 9

Page: 11

Unmeterd Scattered Load			2007 BILL			2008 BILL	-	IMPACT			
500 kWh	Metric	Volume	Rate \$	Charge \$	Volume	Rate \$	Charge \$	Change \$	Change %	% of Total Bill	
Monthly Service Charge				5.82			6.00	0.18	3.1%	0.3%	
Distribution	kWh	500	0.00980	4.90	500	0.03340	16.70	11.80	240.8%	17.7%	
Regulatory Asset Recovery	kWh	500	0.00750	3.75	500	0.00290	1.45	(2.30)	-61.3%	-3.5%	
Retail Transmission - Network	kWh	530	0.00520	2.76	533	0.00520	2.77	0.02	0.6%	0.0%	
Retail Transmission -Connection	kWh	530	0.00450	2.39	533	0.00450	2.40	0.01	0.6%	0.0%	
Wholesale Market Service	kWh	530	0.00520	2.76	533	0.00520	2.77	0.02	0.6%	0.0%	
Rural Rate Protection Charge	kWh	530	0.00100	0.53	533	0.00100	0.53	0.00	0.6%	0.0%	
Debt Retirement Charge	kWh	500	0.00700	3.50	500	0.00700	3.50	0.00	0.0%	0.0%	
Cost of Power Commodity	kWh	530	0.05704	30.23	533	0.05704	30.41	0.17	0.6%	0.3%	
Total Bill				56.63			66.53	9.90	17.5%	14.9%	

Exhibit: 9

Tab: 1

Schedule: 10

Hydro 2000 Inc. Page: 1

PROPOSED CHANGES TO TERMS AND CONDITIONS OF SERVICES

Please refer back to Exhibit 1, Tab 1, Schedule 17 for proposed changes to terms and conditions of service