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# **SETTLEMENT PROPOSAL**

**Ontario Power Generation Inc.** 

Application for 2019 Hydroelectric Payment Amount Adjustment and Recovery of Deferral and Variance Account Balances effective January 1, 2019

EB-2018-0243

**January 30, 2019** 

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#### **Ontario Power Generation Inc.**

# Application for 2019 Hydroelectric Payment Amount Adjustment and Recovery of Deferral and Variance Account Balances effective January 1, 2019

### EB-2018-0243

#### SETTLEMENT PROPOSAL

## A. PREAMBLE

This Settlement Proposal is filed with the Ontario Energy Board (the "OEB") in connection with an application by Ontario Power Generation Inc. ("OPG") for an order or orders approving the disposition of the audited balances as of December 31, 2017 in its deferral and variance accounts, less amounts previously approved for recovery through Hydroelectric Payment Rider A and Nuclear Payment Rider A established in the EB-2016-0152 Payment Amounts Order, the income tax impacts associated with the approved recovery of the Pension & OPEB Cash Versus Accrual Differential Deferral Account, and resulting nuclear and hydroelectric payment riders, with an effective date of January 1, 2019 (the "Application"). The deferral and variance accounts in question are as follows<sup>1</sup>:

- Hydroelectric Water Conditions Variance Account
- Ancillary Services Net Revenue Variance Account Hydroelectric and Nuclear Sub-Accounts
- Hydroelectric Surplus Baseload Generation Variance Account
- Income and Other Taxes Variance Account
- Pension and OPEB Cost Variance Account Future Recovery and Post-2012 Additions components
- Hydroelectric Deferral and Variance Over/Under Recovery Variance Account
- Pension & OPEB Cash Payment Variance Account
- Pension & OPEB Cash Versus Accrual Differential Deferral Account ("Interim Account")
- Niagara Tunnel Project Pre-December 2008 Disallowance Variance Account
- Nuclear Liability Deferral Account
- Nuclear Development Variance Account
- Bruce Lease Net Revenues Variance Account Derivative and Non-Derivative Sub-Accounts
- Nuclear Deferral and Variance Over/Under Recovery Variance Account
- Impact Resulting from Changes in Station End-of-Life Dates (December 31, 2015) Deferral Account
- S&RED ITC Variance Account (collectively, the "Deferral and Variance Accounts").

<sup>&</sup>lt;sup>1</sup> The Capacity Refurbishment Variance Account (CRVA) and the Fitness for Duty Deferral Account were excluded from OPG's Application for the reasons set out in OPG's pre-filed evidenced at Ex.H1-1-1, pp. 10-11 and 25, while the Gross Revenue Charge Variance Account had a zero balance as at December 31, 2017. The balances in the CRVA and the Fitness for Duty Deferral Account as at December 31, 2017 are shown in Attachment A, Tables 1 and 2.

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The total of the balances in the Deferral and Variance Accounts and the income tax impacts associated with the recovery of the Interim Account requested for recovery in this Application is \$233.2M for the regulated hydroelectric facilities and \$1,088.4M for the nuclear facilities.<sup>2</sup> Of these amounts, \$21.1M for the regulated hydroelectric facilities and \$411.5M for the nuclear facilities is for balances in the Pension and OPEB Cost Variance Account that were approved for recovery in previous proceedings.<sup>3</sup>

With the exception of the Interim Account (and associated income tax impacts), the Bruce Lease Net Revenues Variance Account – Non-Derivative Sub-Account, and the Pension and OPEB Cost Variance Account, OPG requested recovery of the balances in the Deferral and Variance Accounts over a three-year period from January 1, 2019 through December 31, 2021. For the Interim Account and associated income tax impacts and the Bruce Lease Revenues Variance Account – Non-Derivative Sub-Account, OPG requested recovery of the balances over an eight-year period from January 1, 2019 to December 31, 2026. For the Pension and OPEB Cost Variance Account, OPG sought to recover the balances over recovery periods previously approved by the OEB.<sup>4</sup>

On the basis of the above recovery periods and straight-line amortization, OPG requested the following payment riders for the January 1, 2019 to December 31, 2021 period<sup>5</sup>:

	January 1 to December 31, 2019	January 1 to December 31, 2020	January 1 to December 31, 2021		
Hydroelectric Rider C	\$1.65/MWh	\$1.65/MWh	\$1.56/MWh		
Nuclear Rider C	\$4.55/MWh	\$4.76/MWh	\$3.43/MWh		

Pursuant to the OEB's Procedural Order No. 1 dated October 16, 2018, a Settlement Conference was scheduled to be held commencing January 8, 2019. The settlement discussions were held at the OEB's offices on January 8 and 9, 2019, in a manner consistent with the process contemplated by the OEB's *Practice Direction on Settlement Conferences* (the "Practice Direction").

<sup>&</sup>lt;sup>2</sup> Ex. H1-2-1 Table 1, line 15, col. (e) and Ex. H1-2-1 Table 2, line 21, col. (e).

<sup>&</sup>lt;sup>3</sup> Pension and OPEB Cost Variance Account- Future Recovery has been approved for recovery by December 31, 2024 (EB-2016-0152 Payment Amounts Order, Appendix G, p. 11). Pension and OPEB Cost Variance Account - Post-2012 Additions has been approved for recovery by June 30, 2021 (EB-2016-0152 Payment Amounts Order, Appendix G, p. 11).

<sup>4</sup> Ibid.

<sup>&</sup>lt;sup>5</sup> Ex. H1-2-1, Table 1, line 17, cols. (g), (h), and (i); Ex. H1-2-1, Table 2, line 23, cols. (g), (h), and (i).

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#### The Parties

OPG and the following intervenors (the "Intervenors", and, collectively with OPG, the "Parties"), participated in the Settlement Conference:

- Association of Major Power Consumers in Ontario ("AMPCO")
- Canadian Manufacturers & Exporters ("CME")
- Consumers Council of Canada ("CCC")
- Energy Probe Research Foundation ("EP")
- Power Workers' Union ("PWU")
- School Energy Coalition ("SEC")
- Vulnerable Energy Consumers Coalition ("VECC").

The Independent Electricity System Operator did not participate in the Settlement Conference.

OEB Staff also participated in the settlement discussions, but in accordance with the Practice Direction is neither a Party nor a signatory to this Settlement Proposal. Although OEB Staff is not a Party to this Settlement Proposal, OEB Staff who did participate in the settlement discussions are bound by the same confidentiality provisions that apply to the Parties to the proceeding.

This document is called a "Settlement Proposal" because it is proposed by the Parties to the OEB to settle certain issues in this proceeding. It is termed a proposal as between the Parties and the OEB. However, as between the Parties, and subject only to the OEB's approval of this Settlement Proposal, this document is intended to be a legal agreement, creating mutual rights and obligations, and to be binding and enforceable in accordance with its terms. As set forth later in the Preamble, this agreement is subject to a condition subsequent, that if this Settlement Proposal is not accepted by the OEB in its entirety, then, unless amended by the Parties, it is null and void and of no further effect. In entering this agreement, the Parties understand and agree that, pursuant to the *Ontario Energy Board Act*, 1998, S.O. 1998, c.15 (Schedule B) (the "Act") the OEB has the exclusive jurisdiction with respect to the interpretation and enforcement of the terms hereof.

## **Confidentiality**

The Parties agree that the settlement discussions shall be subject to the rules relating to confidentiality and privilege contained in the Practice Direction, as amended on October 28, 2016. The Parties understand that confidentiality in that context does not have the same meaning as confidentiality in the OEB's *Practice Direction on Confidential Filings*, and the rules of that latter document do not apply. The Parties interpret the revised Practice Direction to mean that the documents and other information provided, the discussion of each issue, the offers and counter-offers, and the negotiations leading to settlement of each issue during the course of the settlement discussions are strictly confidential and without prejudice. None of the foregoing is admissible as evidence in this proceeding, or otherwise, except where the filing of such settlement information is necessary to resolve a subsequent dispute over the interpretation of any provision of this Settlement Proposal and subject to the direction of the OEB. In such case, only the settlement information that is necessary for the purpose of interpreting the Settlement Proposal shall be filed

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and such information shall be filed using the appropriate protections afforded under the relevant legislation and OEB instruments.

Further, the Parties have a positive and ongoing obligation not to disclose settlement information to persons who were not attendees at the settlement conference. However, the Parties agree that "attendees" is deemed to include, in this context, persons who were not physically in attendance at the settlement conference but were: (a) any persons or entities that the Parties engage to assist them with the settlement conference; and (b) any persons or entities from whom the Parties seek instructions with respect to the negotiations; in each case provided that any such persons or entities have agreed to be bound by the same confidentiality provisions.

## **Parameters of the Proposed Settlement**

The Parties have organized this Settlement Proposal in a manner that is consistent with the Approved Issues List as set out in Schedule 'A' of the OEB's Decision on Issues List dated January 7, 2019, which sets out four distinct issues. <sup>6</sup> The Parties are pleased to inform the OEB that the Parties have reached agreement on all four issues.

The Settlement Proposal describes the agreements reached on the settled issues, and identifies the Parties who agree or who take no position on each issue. For each issue, the Settlement Proposal provides a direct reference to the supporting evidence on the record to date. In this regard, the Parties are of the view that the evidence provided is sufficient to support the Settlement Proposal in relation to such settled issue, and moreover, that the quality and detail of the supporting evidence, together with the corresponding rationale, should allow the OEB to make findings on these issues.

Best efforts have been made to identify all of the evidence that relates to each settled issue. The supporting evidence is identified individually by reference to its exhibit number in an abbreviated format such that, for example, Exhibit A4, Tab 1, Schedule 1 will be referred to as Ex. A4-1-1. In this regard, OPG's response to an interrogatory ("IR") is described by citing the relevant exhibit in the Application, name of the Party and the number of the IR (e.g. H-Staff-1). The identification and listing of the evidence that relates to each issue is provided to assist the OEB. The identification and listing of the evidence that relates to each settled issue is not intended to limit any Party who wishes to assert, in any other proceeding, that other evidence is relevant to a particular settled issue, that evidence listed is not relevant to the issue, or that evidence listed is also relevant to other issues.

According to the Practice Direction (p. 4), the Parties must consider whether a Settlement Proposal should include an appropriate adjustment mechanism for any settled issue that may be affected by external factors. OPG and the other Parties who participated in the settlement discussions agree

<sup>&</sup>lt;sup>6</sup> Pursuant to its December 13, 2018 Decision and Payment Amounts Order, the OEB approved an increase to the base payment amount OPG charges for the output of its prescribed hydroelectric generating facilities effective January 1, 2019. Consequently, issue #5 as filed in the draft issues list proposed by OPG at Ex. A1-2-3 was excluded from the Approved Issues List.

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that no settled issue requires an adjustment mechanism other than as may be expressly set forth herein.

All of the issues contained in this proposal have been settled by the Parties as a package and none of the provisions of these are severable. Numerous compromises were made by the Parties with respect to various matters to arrive at this Settlement Proposal. The distinct issues addressed in this proposal are intricately interrelated, and reductions or increases to the agreed-upon amounts or changes in other agreed-upon parameters may have consequences in other areas of this proposal, which may be unacceptable to one or more of the Parties. If the OEB does not accept this package in its entirety, then there is no settlement (unless the Parties agree that any portion of the package that the OEB does accept may continue as part of a valid Settlement Proposal).

In the event the OEB directs the Parties to make reasonable efforts to revise the Settlement Proposal, the Parties agree to use reasonable efforts to discuss any potential revisions, but no party will be obligated to accept any proposed revision. The Parties agree that all of the Parties who took a position on a particular issue must agree with any revised Settlement Proposal as it relates to that issue prior to its re-submission to the OEB.

None of the Parties can withdraw from this Settlement Proposal except in accordance with Rule 30.05 of the OEB's *Rules of Practice and Procedure*.

Attached to this Settlement Proposal are:

Attachment A: Tables showing deferral and variance account amortization, payment riders and impacts arising from this Settlement Proposal

The Attachments to this Settlement Proposal provide further support for the Settlement Proposal. The Parties acknowledge that the Attachments were prepared by OPG. While the Intervenors have reviewed the Attachments, the Intervenors are relying upon their accuracy, and the accuracy of the underlying evidence, in entering into this Settlement Proposal.

Unless stated otherwise, the settlement of any particular issue in this proceeding and the positions of the Parties in this Settlement Proposal are without prejudice to the rights of the Parties to raise the same issue and/or to take any position thereon in any other proceeding, whether or not OPG is a party to such proceeding, provided that no Party shall take a position that would result in the agreement not applying in accordance with the terms contained herein.

Where in this Agreement, the Parties "accept" the evidence of OPG, or the Parties or any of them "agree" to a revised term or condition or action, including a revised budget or forecast, then unless the Agreement expressly states to the contrary, the words "for the purpose of settlement of the issues herein" shall be deemed to qualify that acceptance or agreement.

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# **Issues Settled by the Parties**

As indicated above, the Parties were able to settle all issues, and have therefore agreed that, subject to OEB approval of this Settlement Proposal, there are no issues that need to be considered through a hearing. Based on the foregoing, and the particulars of the Settlement Proposal detailed below, the Parties accept this Settlement Proposal as appropriate and recommend its acceptance by the OEB.

\*\*\*\*\*

### **B.** Description of Settlement

Issue 1 Are the amounts recorded in the applicable deferral and variance accounts appropriate?

Issue 2 Are the balances for recovery in each of the deferral and variance accounts appropriate?

#### Settled

There is an agreement to settle these two issues as described below.

• The Parties accept the appropriateness of the amounts recorded and balances for recovery as at December 31, 2017 in the Deferral and Variance Accounts, including the Interim Account, and the income tax impacts associated with the recovery of the December 31, 2017 balances of the Interim Account, all as set out in cols. (e) of Attachment A, Tables 1 and 2.

#### **Approval**

Parties in Support: AMPCO, CME, CCC, EP, SEC, VECC

Parties Taking no Position: PWU

#### **Evidence**

The evidence in relation to these two issues includes the following:

Ex. H1-1-1 Deferral and Variance Accounts

H-Staff-1

H-Staff-2

H-Staff-3

H-Staff-4

H-AMPCO-1

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H-AMPCO-2

H-AMPCO-3

H-CME-1

H-CME-2

H-CCC-1

H-CCC-2 H-CCC-3

H-CCC-4

H-EP-4

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# Issue 3 Are the proposed rate riders and disposition periods for the account balances appropriate?

#### **Settled**

There is an agreement to settle this issue as described below.

- The Parties agree to the disposition periods for the Deferral and Variance Account balances and income tax impacts associated with the recovery of the Interim Account as proposed by OPG, with the following modifications:
- The Parties agree that recovery of the portion of the December 31, 2017 balance in the Interim Account related to registered pension plan costs, and the income tax impacts associated with the recovery of this portion of the account balance, which together total \$55.1M for the regulated hydroelectric facilities and \$354.6M for the nuclear facilities, will be deferred to OPG's next rebasing application (the "Deferred Pension Amount"). The Deferred Pension Amount can be found in cols. (f) at Attachment A, Tables 1 and 2. The remaining Deferral and Variance Account balances and the income tax impact associated with the recovery of the remaining portion of the Interim Account, which together total \$178.0M for the regulated hydroelectric facilities and \$733.7M for the nuclear facilities, are recoverable in this Application and can be found in cols. (g) at Attachment A, Tables 1 and 2.

For greater clarity, the Intervenors accept the Deferred Pension Amount for the purposes of this and any future application, and agree that any future positions taken by them with respect to these amounts shall be limited to the appropriate period of recovery of these amounts.

The Parties agree to defer disposition of the Deferred Pension Amount in order to allow the currently forecast reduction of that amount by virtue of further differentials between registered pension plan accrual costs and actual cash funding contribution amounts in the coming years, based on the projections provided by OPG at Ex. JT1.1. The Parties acknowledge that these projections are subject to inherent variability due to the impact of actuarial assumptions and economic and financial market conditions.<sup>7</sup>

• The Parties agree that the portion of the December 31, 2017 balance in the Interim Account that is not related to registered pension plan costs, which includes other post-employment benefit ("OPEB") costs, and the income tax impacts associated with the recovery of this portion of the account balance, will be recovered over a 72 month period on a straight line basis, effective January 1, 2019. Given the deferral of the disposition of the Deferred Pension Amount described above, the Parties agree this recovery period appropriately balances OPG's cash flow needs with consumer impacts.

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<sup>&</sup>lt;sup>7</sup> Ex. L-H-Staff-8, p. 10, lines 4-7.

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- For the Deferral and Variance Account balances recoverable in this Application other than those balances in the Interim Account and the Nuclear Liability Deferral Account, and based upon the agreed-upon recovery periods above, the Parties agree to a non-straight line basis of annual amortization during the period January 1, 2019 to December 31, 2021 as set out in cols. (i), (j) and (k) of Attachment A, Tables 1 and 2. As noted above, the portion of the Interim Account balance and associated income tax impacts recoverable in this Application shall be amortized on a straight-line basis, as set out at cols. (i), (j) and (k) at Attachment A, Table 1, lines 11 and 16 and Attachment A, Table 2, lines 13 and 20. The Parties agree to the recovery of this portion of the Interim Account balance on a straight-line basis in order to enable OPG to meet one of the requirements of US GAAP necessary for it to continue to recognize this portion of the balance as a regulatory asset in its consolidated financial statements. The Nuclear Liability Deferral Account also will be amortized on a straight-line basis, as required by Ontario Regulation 53/05.
- The Parties agree to the following payment riders for the January 1, 2019 to December 31, 2021 period, on the basis of the above agreed upon balances for recovery, recovery periods, and annual amortization amounts:

	January 1 to December 31, 2019	January 1 to December 31, 2020	January 1 to December 31, 2021
Hydroelectric Rider C	\$1.16/MWh	\$1.25/MWh	\$2.05/MWh
Nuclear Rider C	\$2.20/MWh	\$2.28/MWh	\$6.13/MWh

For purposes of settlement, the pattern of annual amortization amounts and payment riders above is to address the trajectory of year-over-year customer bill impacts of OPG's proposed payment riders in its prefiled evidence during the 2019 to 2021 period. The incremental year-over-year impact on typical residential customers' bills from OPG's proposal was estimated by OPG to be 1.2% in 2019, 0.1% in 2020, and (0.3%) in 2021<sup>10</sup>. The incremental year-over-year impact on typical residential customers' bills resulting from the above agreed upon payment riders is estimated by OPG to be 0.7% in 2019, 0% in 2020, and 0.9% in 2021<sup>11</sup>.

# **Approval**

Parties in Support: AMPCO, CME, CCC, EP, SEC, VECC

<sup>&</sup>lt;sup>8</sup> Technical Conference Tr. p. 55, line 23 to p. 57, line 14 and JT1.7, p. 2.

<sup>&</sup>lt;sup>9</sup> Section 6(2)7 of O. Reg. 53/05 requires that the balance recorded in the Nuclear Liability Deferral Account be recovered on a straight line basis over a period not to exceed three years.

<sup>&</sup>lt;sup>10</sup> Ex. I1-1-2, Table 1, line 5.

<sup>&</sup>lt;sup>11</sup> Attachment A, Table 3, line 5.

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Parties Taking no Position: PWU

# **Evidence**

The evidence in relation to this issue includes the following:

Ex. H1-2-1	Clearance of Deferral and Variance Accounts
Ex. I1-1-2	Customer Impacts
H-Staff-6	
H-CME-3	
H-CCC-5	
H-EP-4	

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Issue 4 Does OPG's proposed treatment of pension and OPEB costs appropriately reflect the OEB's Decision in EB-2013-0321 and OEB policy as set out in the Report of the OEB: Regulatory Treatment of Pension and Other Post-Employment Benefits (OPEBs) Costs, issued in the generic proceeding EB-2015-0040?

#### **Settled**

There is an agreement to settle this issue as described below.

- The December 31, 2017 balances in the Interim Account as filed by OPG and as shown in Attachment A, Table 1, lines 10 and 11, and Table 2, lines 12 and 13, for the registered pension plan and other benefit plans including OPEB, respectively, are accepted by the Parties. For the purposes of those balances, the Parties agree that the accrual method is the appropriate regulatory accounting and recovery basis for pensions and OPEB for OPG consistent with the Report of the OEB: Regulatory Treatment of Pension and Other Post-Employment Benefits (OPEBs) Costs ("Report"), issued in EB-2015-0040. The Parties reached this agreement on the basis of the findings in the Report and consistency with past OPG proceedings.
- Amounts recovered from the December 31, 2017 balance in the Interim Account shall be subject to the Pension and OPEB Forecast Accrual versus Actual Cash Payment Differential variance account, as established pursuant to the OEB's Report. Consistent with the Report, these amounts will be recorded in the Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential sub-account of that account (as offset by the Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Contra sub-account), with carrying charges on the monthly opening balance in the Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential sub-account assessed at the OEB's prescribed Construction Work In Progress interest rate 12 and recorded in the Pension & OPEB Forecast Accrual versus Actual Cash Payment Differential Carrying Charges sub-account for future disposition.

## **Approval**

Parties in Support: AMPCO, CME, CCC, EP, SEC, VECC

Parties Taking no Position: PWU

### **Evidence**

The evidence in relation to this issue includes the following:

Ex. F1-1-1 Recovery of Pension and OPEB Accrual Costs H-Staff-7 H-Staff-8

<sup>&</sup>lt;sup>12</sup> Report, p. 12.

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H-Staff-9

H-Staff-10

H-Staff-11

H-Staff-12

H-Staff-13

H-EP-1

H-EP-2

H-EP-3

H-EP-4

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# **C.** Other Aspects of Settlement

The Parties further agree to the following:

• OPG undertakes to prepare a forward looking study to assess OPG's management of its generating facilities in relation to surplus baseload generation conditions, including any opportunities OPG can take to help the system respond to surplus baseload generation conditions in order to mitigate the associated cost to customers. In preparing the study, OPG will consult with the IESO and take into consideration IESO forecasts. Such study will be filed as part of OPG's next rebasing application.

# Approval

Parties in Support: AMPCO, CME, CCC, EP, SEC, VECC

Parties Taking no Position: PWU

Table 1

<u>Calculation of Deferral and Variance Account Recovery Payment Rider - Regulated Hydroelectric (\$M)</u>

Line No.		Note	Audited Year End Balance 2017	OEB-Approved Amortization	(a)-(b) 2017 Balance Less Approved Amortization	Amounts Deferred to Future Applications	(c) - (d) Amounts Settled in Current Application	Settled Amounts Recoverable in Next Rebasing Application	(e)-(f) Settled Amounts Recoverable in Current Application	Recovery Period (months)	Amortization Jan - Dec 2019	Amortization Jan - Dec 2020	Amortization Jan - Dec 2021	(i)+(j)+(k) Amortization	(c)-(l) Unamortized Balance
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)
			Note 1	Note 2											
1	Hydroelectric Water Conditions Variance		(150.2)	(17.3)	(132.9)	0.0	(132.9)	0.0	(132.9)	36	(32.3)	(35.5)	(65.1)	(132.9)	0.0
2	Ancillary Services Net Revenue Variance - Hydroelectric		(45.0)	(13.2)	(31.8)	0.0	(31.8)	0.0	(31.8)	36	(7.7)	(8.5)	(15.6)	(31.8)	0.0
3	Hydroelectric Incentive Mechanism Variance		(0.1)	(0.1)	(0.0)	0.0	(0.0)	0.0	(0.0)	36	(0.0)	(0.0)	(0.0)	(0.0)	0.0
4	Hydroelectric Surplus Baseload Generation Variance		360.5	82.5	278.0	0.0	278.0	0.0	278.0	36	67.5	74.4	136.1	278.0	0.0
5	Income and Other Taxes Variance - Hydroelectric		0.0	(0.0)	0.0	0.0	0.0	0.0	0.0	36	0.0	0.0	0.0	0.0	0.0
6	Capacity Refurbishment Variance - Hydroelectric		9.0	3.3	5.7	5.7	0.0	0.0	0.0		0.0	0.0	0.0	0.0	5.7
7	Niagara Tunnel Project Pre-December 2008 Disallowance Variance Account		5.8	0.0	5.8	0.0	5.8	0.0	5.8	36	1.4	1.5	2.8	5.8	0.0
8	Pension and OPEB Cost Variance - Hydroelectric - Future	3	8.4	2.1	6.3	0.0	6.3	0.0	6.3	72	0.8	0.8	1.5	3.2	3.2
9	Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions	4	26.6	11.8	14.8	0.0	14.8	0.0	14.8	30	3.6	4.0	7.2	14.8	0.0
10	Pension & OPEB Cash Versus Accrual Differential Deferral - Hydroelectric - Registered Pension Plan (RPP)		41.3	0.0	41.3	0.0	41.3	41.3	0.0		0.0	0.0	0.0	0.0	41.3
11	Pension & OPEB Cash Versus Accrual Differential Deferral - Hydroelectric - Non RPP	6	41.9	0.0	41.9	0.0	41.9	0.0	41.9	72	7.0	7.0	7.0	20.9	20.9
12	Pension & OPEB Cash Payment Variance - Hydroelectric		(25.9)	4.3	(30.1)	0.0	(30.1)	0.0	(30.1)	36	(7.3)	(8.1)	(14.8)	(30.1)	0.0
	Hydroelectric Deferral and Variance Over/Under Recovery Variance		25.7	13.5	12.2	0.0	12.2	0.0	12.2	36	3.0	3.3	6.0	12.2	0.0
14	Total		297.9	86.8	211.1	5.7	205.4	41.3	164.1		35.9	38.8	65.3	140.0	71.1
15	Tax on Pension & OPEB Cash Versus Accrual Differential Deferral - Hydroelectric - RPP	7			13.7	0.0	13.7	13.7	0.0		0.0	0.0	0.0	0.0	13.7
16	Tax on Pension & OPEB Cash Versus Accrual Differential Deferral - Hydroelectric - Non RPP	6, 8			14.0	0.0	14.0	0.0	14.0	72	2.3	2.3	2.3	7.0	7.0
17	Total Recoverable Amount				238.8	5.7	233.1	55.1	178.0		38.2	41.2	67.6	147.0	91.8
18	Forecast Production (TWh)	5									33.0	33.0	33.0		
19	Regulated Hydroelectric Payment Rider (\$/MWh) (line 17 / line 18)										1.16	1.25	2.05		

- 1 From Ex. H1-1-1 Table 1, col (b).
- 2 From EB-2016-0152 PAO, App. D, Table 1, col. (h).
- 3 Amortized over the period to December 31, 2024 as previously approved by the OEB (EB-2016-0152 PAO, Appendix G, p. 11).
- 4 Amortized over the period to June 30, 2021 as previously approved by the OEB (EB-2016-0152 PAO, Appendix G, p. 11).
- 5 From EB-2016-0152 PAO App. I, Table 2, line 3.
- 6 Amortized over the 72 month period from January 1, 2019 to December 31, 2024.
- 7 Calculated as: line 10 \* tax rate / (1 tax rate) = line 10 \* (0.25 / 0.75).
- 8 Calculated as: line 11 \* tax rate / (1 tax rate) = line 11 \* (0.25 / 0.75).

Table 2 Calculation of Deferral and Variance Account Recovery Payment Rider - Nuclear (\$M)

Line			Audited Year End Balance	OEB-Approved Amortization		Amounts Deferred to Future	(c) - (d) Amounts Settled in Current	Settled Amounts Recoverable in	(e)-(f) Settled Amounts Recoverable in Current	Recovery Period	Amortization Jan - Dec	Amortization Jan - Dec		(i)+(j)+(k) Amortization	(c)-(l) Unamortized Balance
Line No.	Account	Note	2017	Amortization	Approved Amortization	Applications	Application	Next Rebasing Application	Application	(months)	2019	2020	Jan -Dec 2021		balance
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)
			Note 1	Note 2											
1	Nuclear Liability Deferral		18.6	0.0	18.6	0.0	18.6	0.0	18.6	36	6.2	6.2	6.2	18.6	0.0
2	Impact Resulting from Changes in Station End-of-Life Dates (Dec 31, 2015) Deferral	***************************************	(103.4)	0.0	(103.4)	0.0	(103.4)	0.0	(103.4)	36	(11.1)	(10.9)	(81.4)	(103.4)	0.0
3	Nuclear Development Variance		1.9	1.7	0.2	0.0	0.2	0.0	0.2	36	0.0	0.0	0.2	0.2	0.0
4	Ancillary Services Net Revenue Variance - Nuclear		3.4	1.0	2.4	0.0	2.4	0.0	2.4	36	0.3	0.3	1.9	2.4	0.0
5	Capacity Refurbishment Variance - Nuclear - Capital Portion	***************************************	(28.0)	(37.6)	9.5	9.5	0.0	0.0	0.0		0.0	0.0	0.0	0.0	9.5
6	Capacity Refurbishment Variance - Nuclear - Non-Capital Portion	***************************************	(58.1)	(31.6)	(26.5)	(26.5)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	(26.5)
7	Bruce Lease Net Revenues Variance - Derivative Sub-Account		(69.4)	(68.6)	(0.8)	0.0	(0.8)	0.0	(0.8)	36	(0.1)	(0.1)	(0.6)	(0.8)	0.0
8	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account	6	189.0	20.6	168.4	0.0	168.4	0.0	168.4	96	6.8	6.7	49.7	63.2	105.3
9	Income and Other Taxes Variance - Nuclear	***************************************	(10.1)	(4.3)	(5.7)	0.0	(5.7)	0.0	(5.7)	36	(0.6)	(0.6)	(4.5)	(5.7)	0.0
10	Pension and OPEB Cost Variance - Nuclear - Future	3	171.7	42.9	128.8	0.0	128.8	0.0	128.8	72	6.9	6.8	50.7	64.4	64.4
11	Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions	4	508.9	226.2	282.7	0.0	282.7	0.0	282.7	30	30.4	29.8	222.6	282.7	0.0
12	Pension & OPEB Cash Versus Accrual Differential Deferral - Nuclear - Registered Pension Plan (RPP)		266.0	0.0	266.0	0.0	266.0	266.0	0.0		0.0	0.0	0.0	0.0	266.0
13	Pension & OPEB Cash Versus Accrual Differential Deferral - Nuclear - Non RPP	7	264.5	0.0	264.5	0.0	264.5	0.0	264.5	72	44.1	44.1	44.1	132.2	132.2
14	Pension & OPEB Cash Payment Variance - Nuclear		(114.0)	23.4	(137.4)	0.0	(137.4)	0.0	(137.4)	36	(14.8)	(14.5)	(108.1)	(137.4)	0.0
15	Nuclear Deferral and Variance Over/Under Recovery Variance		74.7	44.1	30.6	0.0	30.6	0.0	30.6	36	3.3	3.2	24.1	30.6	0.0
16	Fitness for Duty Deferral		0.1	0.0	0.1	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.1
	SR&ED ITC Variance		(3.4)	0.0	(3.4)	0.0	(3.4)	0.0	(3.4)	36	(0.4)	(0.4)	(2.6)	(3.4)	0.0
	Total		1,112.6	217.9	894.7	(16.9)	911.6	266.0	645.6		71.0	70.6	202.1	343.7	551.1
	Tax on Pension & OPEB Cash Versus Accrual Differential Deferral - Nuclear - RPP	8			88.6	0.0	88.6	88.6	0.0		0	0	0	0	88.6
20	Tax on Pension & OPEB Cash Versus Accrual Differential Deferral - Nuclear - Non RPP	7, 9			88.2	0.0	88.2	0.0	88.2	72	15	15	15	44	44.1
21	Total Recoverable Amount				1,071.5	(16.9)	1,088.4	354.6	733.7		85.7	85.3	216.8	387.8	683.8
22	Forecast Production (TWh)	5									39.0	37.4	35.4		
23	Nuclear Payment Rider (\$/MWh) (line 21 / line 22)										2.20	2.28	6.13		

- 1 From Ex. H1-1-1 Table 1, col (b)
- 2 From EB-2016-0152 PAO, App. E, Table 1, col. (h).
- 3 Amortized over the period to December 31, 2024 as previously approved by the OEB (EB-2016-0152 PAO, Appendix G, p. 11).
- 4 Amortized over the period to June 30, 2021 as previously approved by the OEB (EB-2016-0152 PAO, Appendix G, p. 11).
- 5 From EB-2016-0152 PAO App. C, Table 1, line 2.
- 6 Amortized over the 96 month period from January 1, 2019 to December 31, 2026.
- 7 Amortized over the 72 month period from January 1, 2019 to December 31, 2024.
- 8 Calculated as: line 12 \* tax rate / (1 tax rate) = line 12 \* (0.25 / 0.75). 9 Calculated as: line 13 \* tax rate / (1 tax rate) = line 13 \* (0.25 / 0.75).

Filed: 2019-01-30 EB-2018-0243 Ex. M1 Settlement Proposal Attachment A Table 3

Table 3
Annualized Residential Consumer Impact

Line						
No.	Description	Note	2019	2020	2021	Average
			(a)	(b)	(c)	(d)
1	Typical Consumption (kWh/Month)	1	789	789	789	
2	Typical Usage of OPG Generation (kWh/Month) (line 1 x line 10)		424	414	403	
2	Transport Dill (# Manuth)		442.04	442.04	440.04	
3	Typical Bill (\$/Month)	1	112.84	112.84	112.84	
4	Incremental Bill Impact (\$/month) (line 2 x line 7 / 1000)		0.75	0.05	0.97	0.59
5	Incremental Bill Impact (%) (line 4 / line 3)		0.7%	0.0%	0.9%	0.52%
	T		4.70	4.00	4.00	
6	Incremental Weighted Average Total Payments (\$/MWh)	2	1.76	1.88	4.28	
/	Year-Over-Year Change in Incremental Weighted Average Total Payments (\$/MWh)		1.76	0.11	2.41	
8	Total OPG Regulated Production (TWh)	3	72.0	70.3	68.4	
9	Forecast of 2017 Provincial Demand (TWh)	4	134.0	134.0	134.0	
10	OPG Proportion of Consumer Usage (line 8 / line 9)		53.7%	52.5%	51.0%	

- Typical monthly consumption (750 kWh) and typical monthly bill are based on the OEB "Bill Calculator" for estimating monthly electricity bills (using Time of Use pricing), available at: https://www.oeb.ca/consumer-protection/energy-contracts/bill-calculator accessed in May 2018

  Typical Consumption includes line losses (Assumed loss factor of 1.052).
- 2 Per App. A, Table 5, line 13.
- 3 Per EB-2016-0152 PAO App. I, Table 2, line 3 plus line 6.
- 4 Based on forecast demand for 2019 (134.0 TWh) from Table 3.1 of IESO 18-Month Outlook Update for July 2018 to December 2019, published June 20, 2018.

Filed: 2019-01-30 EB-2018-0243 Ex. M1 Settlement Proposal Attachment A Table 4a

Table 4a

<u>Annualized Bill Impact for Typical Alectra (PowerStream) Consumers</u>

			20	)19	20	20	20	21
Line No.	Description	Note	Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial
			(a)	(b)	(c)	(d)	(e)	(f)
1	Typical Consumer Usage (kWh/Month)	1	82,760	2,896,600	82,760	2,896,600	82,760	2,896,600
2	Total Forecast Production (TWh)	2	72.0	72.0	70.3	70.3	68.4	68.4
3	OPG Portion of Consumer Usage	3	53.7%	53.7%	52.5%	52.5%	51.0%	51.0%
4	Consumer Usage of OPG Generation (kWh/Month) (line 1 x line 3)		44,470	1,556,434	43,438	1,520,317	42,220	1,477,695
5	Typical Monthly Consumer Bill (\$)	1	14,157	467,845	14,157	467,845	14,157	467,845
6	Year-Over-Year Change in Incremental Weighted Average Total Payments (\$/MWh)	4	1.76	1.76	0.11	0.11	2.41	2.41
7	Percentage Increase in Consumer Bills (line 6 x (line 4/1000) / line 5)		0.55%	0.59%	0.04%	0.04%	0.72%	0.76%
8	Dollar Increase in Consumer Bills (\$) (line 5 x line 7)		78.31	2,740.86	4.99	174.76	101.67	3,558.42

- Current Approved Rates and Usage (adjusted for line losses) are taken from the Powerstream EB-2015-0003 Draft Rate Order.

  Medium/Large Business (EB-2015-0003 Draft Rate Order, Schedule B, Page 4): GS > 50 customer, consumption 80,000 kWh, loss factor 3.45%.

  Large Industrial (EB-2015-0003 Draft Rate Order, Schedule B, Page 5): Large User customer, consumption 2,800,000 kWh, loss factor 3.45%.
- 2 Per App. A, Table 5, line 5 plus line 10.
- 3 Per App. A, Table 3, line 10.
- 4 Per App. A, Table 3, line 7.

Numbers may not add due to rounding.

Filed: 2019-01-30 EB-2018-0243 Ex. M1 Settlement Proposal Attachment A Table 4b

Table 4b

Annualized Bill Impact for Typical Hydro One Networks Consumers

			20	19	20	20	20	21
Line No.	Description	Note	Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial		Large Industrial
			(a)	(b)	(c)	(d)	(e)	(f)
1	Typical Consumer Usage (kWh/Month)	1	37,135	517,000	37,135	517,000	37,135	517,000
2	Total Forecast Production (TWh)	2	72.0	72.0	70.3	70.3	68.4	68.4
3	OPG Portion of Consumer Usage	3	53.7%	53.7%	52.5%	52.5%	51.0%	51.0%
4	Consumer Usage of OPG Generation (kWh/Month) (line 1 x line 3)		19,954	277,800	19,491	271,354	18,944	263,746
5	Typical Monthly Consumer Bill (\$)	1	7,556	77,516	7,556	77,516	7,556	77,516
6	Year-Over-Year Change in Incremental Weighted Average Total Payments (\$/MWh)	4	1.76	1.76	0.11	0.11	2.41	2.41
7	Percentage Increase in Consumer Bills (line 6 x (line 4/1000) / line 5)		0.47%	0.63%	0.03%	0.04%	0.60%	0.82%
8	Dollar Increase in Consumer Bills (\$) (line 5 x line 7)		35.14	489.20	2.24	31.19	45.62	635.13

- Current Approved Rates and Usage (adjusted for line losses) are based on 2017 bill impacts per Hydro One's EB-2016-0081 Draft Rate Order. Medium/Large Business (EB-2016-0081 Draft Rate Order, Exhibit 6.0): GSd customer, consumption 35,000 kWh, loss factor 6.1%. Large Industrial (EB-2016-0081 Draft Rate Order, Exhibit 6.0): ST customer, consumption 500,000 kWh, loss factor 3.4%.
- 2 Per App. A, Table 5, line 5 plus line 10.
- 3 Per App. A, Table 3, line 10.
- 4 Per App. A, Table 3, line 7.

Filed: 2019-01-30 EB-2018-0243 Ex. M1 Settlement Proposal Attachment A Table 4c

Table 4c Annualized Bill Impact for Typical Toronto Hydro Consumers

			20	19	20	20	2021		
Line No.	Description		Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial	
			(a)	(b)	(c)	(d)	(e)	(f)	
1	Typical Consumer Usage (kWh/Month)	1	155,640	4,584,150	155,640	4,584,150	155,640	4,584,150	
2	Total Forecast Production (TWh)	2	72.0	72.0	70.3	70.3	68.4	68.4	
3	OPG Portion of Consumer Usage	3	53.7%	53.7%	52.5%	52.5%	51.0%	51.0%	
4	Consumer Usage of OPG Generation (kWh/Month) (line 1 x line 3)		83,630	2,463,208	81,690	2,406,049	79,399	2,338,595	
5	Typical Monthly Consumer Bill (\$)	1	27,003	771,057	27,003	771,057	27,003	771,057	
6	Year-Over-Year Change in Incremental Weighted Average Total Payments (\$/MWh)	4	1.76	1.76	0.11	0.11	2.41	2.41	
7	Percentage Increase in Consumer Bills (line 6 x (line 4/1000) / line 5)		0.55%	0.56%	0.03%	0.04%	0.71%	0.73%	
8	Dollar Increase in Consumer Bills (\$) (line 5 x line 7)		147.27	4,337.68	9.39	276.57	191.20	5,631.55	

- 1 Current Approved Rates and Usage (adjusted for line losses) are taken from the THESL EB-2014-0116 Draft Rate Order Medium/Large Business (EB-2014-0116 Draft Rate Order, Schedule 9, Page 7): GS 50-999 customer, consumption 150,000 kWh, loss factor 3.76% Large Industrial (EB-2014-0116 Draft Rate Order, Schedule 9, Page 9): Large Use customer, consumption 4,500,000 kWh, loss factor 1.87%
- 2 Per App. A, Table 5, line 5 plus line 10.
- 3 Per App. A, Table 3, line 10.4 Per App. A, Table 3, line 7.

Filed: 2019-01-30 EB-2018-0243 Ex. M1 Settlement Proposal Attachment A Table 5

Table 5
<a href="Computation">Computation of OPG Weighted Average Payment Amount and Total Payments</a>

Line						
No.	Description	Note	2018	2019	2020	2021
		11010	(a)	(b)	(c)	(d)
			,	, ,	, ,	. ,
1	Hydroelectric Payment Amount (\$/MWh)	1	42.05	42.51	42.98	43.45
2	Hydroelectric Payment Rider A (\$/MWh)	2	0.52	1.44	1.01	0.00
3	Hydroelectric Payment Rider B (\$/MWh) (Hydroelectric Interim Period Shortfall Recovery Rider)	3	0.13	0.35	0.24	0.00
4	Hydroelectric Payment Rider C (\$/MWh)	4	0.00	1.16	1.25	2.05
5	Hydroelectric Production Forecast (TWh)	5	33.0	33.0	33.0	33.0
6	Nuclear Payment Amount (NPA) (\$/MWh)	6	78.64	77.00	85.00	89.70
7	Nuclear Payment Rider A (NPR) (\$/MWh)	7	1.05	2.79	2.04	0.00
8	Nuclear Payment Rider B (\$/MWh) (Nuclear Interim Period Shortfall Recovery Rider)	8	2.88	7.71	5.64	0.00
9	Nuclear Payment Rider C (\$/MWh)	9	0.00	2.20	2.28	6.13
10	Nuclear Production Forecast (TWh)	10	38.5	39.0	37.4	35.4
11	Weighted Average Total Payments (\$/MWh) ((Sum lines 1 to 4) x line 5) + (Sum lines 6 to 9) x line 10)) / (line 5 + line 10)		64.16	69.44	71.76	71.55
12	EB-2016-0152 Weighted Average Total Payments (\$/MWh)	11	64.16	67.68	69.88	67.27
13	Incremental Weighted Average Total Payments (\$/MWh) (line 11 - line 12)		0.00	1.76	1.88	4.28
14	Percentage Change in Weighted Average Payment Amount (Year over Year)	12	5.0%	8.2%	3.3%	-0.3%

- 1 Col. (a) is the OEB approved 2018 hydroelectric payment amount per EB-2016-0152 PAO, App. B, Table 1, line 6.
  - Col. (b) is the 2019 hydroelectric payment amount approved in this application (EB-2018-0243 Decision and Payment Amounts Order dated December 13, 2018). Cols. (c) and (d) are illustrative hydroelectric payment amounts calculated using an annual adjustment to the hydroelectric rate of 1.1%.
- 2 Cols. (a) to (c) are EB-2016-0152 approved hydroelectric riders per EB-2016-0152 PAO App. D, Table 1, line 14.
- 3 Regulated Hydroelectric interim period shortfall recovery rider per EB-2016-0152 PAO App. F, Table 1, lines 17 to 19.
- 4 Cols. (b) to (d) per App. A, Table 1, cols. (i), (j) and (k), line 19.
- 5 Regulated Hydroelectric production is the 2014 and 2015 average OEB approved hydroelectric production per EB-2013-0321 Decision and Order P. 9, and EB-2016-0152 PAO, App. I, Table 2, line 3.
- 6 Cols. (a) to (d) are the OEB-approved nuclear payment amounts per EB-2016-0152 PAO, App. C, Table 1.
- 7 Cols. (a) to (c) are EB-2016-0152 approved nuclear riders per EB-2016-0152 PAO App. E, Table 1, line 18.
- 8 Nuclear interim period shortfall recovery rider per EB-2016-0152 PAO App. F, Table 2, lines 12 to 14.
- 9 Cols. (b) to (d) per App. A, Table 2, cols. (i), (j) and (k), line 23.
- 10 Cols. (a) to (d) are production amounts approved in EB-2016-0152, per EB-2016-0152 PAO App. C, Table 1, line 2.
- 11 Per EB-2016-0152 PAO App. I, Table 2, line 11.
- 12 Col. (a) per EB-2016-0152 PAO App. I, Table 2, col. (c), line 12.