Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 1 of 34

#### **DEFERRAL AND VARIANCE ACCOUNTS**

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#### 1.0 PURPOSE

This evidence describes OPG's deferral and variance accounts. These accounts were established pursuant to O. Reg. 53/05 and to the OEB's decisions in EB-2007-0905, EB-2009-0174, EB-2010-0008, EB-2011-0090, EB-2012-0002, EB-2013-0321, EB-2014-0369, EB-2014-0370 and EB-2015-0374.

#### 2.0 OVERVIEW

The audited balances in each of the deferral and variance accounts are shown in Ex. H1-1-1 Table 1.<sup>1</sup> The unqualified Independent Auditors' Report prepared by Ernst & Young LLP is presented as Attachment 1. The Schedule of Regulatory Balances as at December 31, 2015 is presented as Attachment 2.

OPG proposes to clear the audited balances in all deferral and variance accounts as at December 31, 2015, except for the Pension & OPEB Cash Versus Accrual Differential Deferral Account<sup>2</sup>. OPG's proposal is consistent with the OEB's expectation that "all accounts should be reviewed and disposed of in a cost of service proceeding unless there is a compelling reason to not do so" (EB-2013-0321 Decision, p. 125). The total year-end 2015 debit balance in the accounts proposed for clearance is \$211.3M for the regulated hydroelectric facilities and \$1,162.4M for the nuclear facilities. Adjusted for 2016 amortization amounts approved in EB-2014-0370, these balances are \$107.9M for the regulated hydroelectric facilities and \$629.4M for the nuclear facilities and largely relate to unamortized portions of the Pension and OPEB Cost Variance Account previously approved for recovery in EB-2012-0002 and EB-2014-0370 over periods extending beyond December 31, 2016. Details regarding proposed account clearance and riders are presented in Ex. H1-2-1.

<sup>&</sup>lt;sup>1</sup> A debit entry or balance is an amount to be collected from ratepayers. A credit entry or balance is an amount to be returned to ratepayers.

<sup>&</sup>lt;sup>2</sup> Clearance of this account is subject to the outcome of the OEB's generic proceeding on pension and OPEB costs (EB-2015-0040).

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 2 of 34

- 1 OPG proposes to continue all existing deferral and variance accounts, using the
- 2 methodologies that have been used to record entries into these accounts to date, as
- 3 approved by the OEB. These methodologies were used to determine account additions
- 4 recorded during 2015.

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- 6 As described in Ex. A1-3-3, OPG is proposing to file a mid-term production review application
- 7 in the first quarter of 2019 that would include a request to dispose of applicable audited
- 8 deferral and variance account balances. Most accounts brought forward as part of that
- 9 application would reflect amounts accumulated over the period January 1, 2016 to December
- 10 31, 2018 as well as any remaining unamortized portions, as at December 31, 2018, of
- 11 previously approved amounts with recovery period extending beyond December 31, 2018.

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- 13 Section 3.0 lists OPG's existing deferral and variance accounts. Section 4.0 describes the
- 14 proposed approach to determine reference amounts for additions to deferral and variance
- 15 accounts. Section 5.0 describes the existing deferral and variance accounts and how
- 16 additions to the accounts have been and are proposed to be determined. Section 6.0
- 17 proposes a set of new deferral and variance accounts. Finally, section 7.0 discusses the
- application of interest to the balances in the accounts.

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#### 3.0 LISTING OF EXISTING ACCOUNTS

- 21 The OEB has authorized deferral and variance accounts for OPG as listed below. OPG
- proposes to continue all of its existing deferral and variance accounts:
- Hydroelectric Water Conditions Variance Account
- Ancillary Services Net Revenue Variance Account Hydroelectric and Nuclear
- 25 Sub-Accounts
- Hydroelectric Incentive Mechanism Variance Account
- Hydroelectric Surplus Baseload Generation Variance Account
- Income and Other Taxes Variance Account
- Capacity Refurbishment Variance Account
- Pension and OPEB Cost Variance Account
- Hydroelectric Deferral and Variance Over/Under Recovery Variance Account

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 3 of 34

1	•	Gross Revenue Charge Variance Account		
2	•	Pension & OPEB Cash Payment Variance Account		
3	•	Pension & OPEB Cash Versus Accrual Differential Deferral Account		
4	•	Niagara Tunnel Project Pre-December 2008 Disallowance Variance Account		
5	•	Nuclear Liability Deferral Account		
6	•	Nuclear Development Variance Account		
7	•	Bruce Lease Net Revenues Variance Account - Derivative and Non-Derivative		
8		Sub-Accounts		
9	•	Pickering Life Extension Depreciation Variance Account (proposed to be		
10		terminated as of the effective date of the payment amounts order of this		
11		Application)		
12	•	Nuclear Deferral and Variance Over/Under Recovery Variance Account		
13	•	Impact Resulting from Changes in Station End-of-Life Dates (December 31, 2015)		
14		Deferral Account		
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16	Ex. H1-1-1 Table 1 shows the audited 2014 closing balances and the audited 2015 closing			
17	balances for each account. Ex. H1-1-1 Tables 2 through 13 provide supporting calculations			
18	showing the derivation of 2015 additions into these accounts.			
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20	4.0 DI	EFERRAL AND VARIANCE ACCOUNT ADDITIONS AS OF THE EFFECTIVE		
21	D	ATE OF THE PAYMENT AMOUNTS ORDER IN THIS PROCEEDING		
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23		droelectric Deferral and Variance Account Additions		
24	OPG proposes that the reference amounts used to determine post-2015 hydroelectric			
25	deferral and variance account additions as of the effective date of the payment amounts			

order in this proceeding will be the forecasts underpinning the hydroelectric payment

amounts in 2014 and 2015 approved by the OEB in EB-2013-0321, unless otherwise

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This treatment would apply to the following accounts:

specified in the account descriptions.

• Hydroelectric Water Conditions Variance Account

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 4 of 34

- Ancillary Services Net Revenue Variance Account Hydroelectric
- Hydroelectric Incentive Mechanism Variance Account
  - Income and Other Taxes Variance Account Hydroelectric
- Capacity Refurbishment Variance Account Hydroelectric
  - Gross Revenue Charge Variance Account
    - Pension & OPEB Cash Payment Variance Account
      - Hydroelectric Capital Structure Variance Account (proposed)

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- 9 The proposed treatment applies only to the hydroelectric accounts that are listed above<sup>3</sup>
- 10 because the reference amounts for the other hydroelectric variance and deferral accounts
- are not based on the OEB-approved forecast amounts underpinning OPG's payment
- 12 amounts.

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#### 4.2 Nuclear Deferral and Variance Account Additions

- 15 The reference amounts used to determine nuclear deferral and variance account additions
- 16 for 2016 will be the forecasts underpinning the nuclear payment amounts in 2014 and 2015
- 17 approved by the OEB in EB-2013-0321, unless otherwise specified in the account
- 18 descriptions.

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- 20 OPG proposes that the reference amounts used to determine account additions as of the
- 21 effective date of the payment amounts order in this Application will be the annual forecasts
- 22 underpinning the approved nuclear revenue requirements for each year in this proceeding.
- 23 unless otherwise specified in the account descriptions.

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#### 5.0 ACCOUNT DESCRIPTIONS AND ENTRIES

- 26 This section provides a description and summarizes the need for OPG's deferral and
- 27 variance accounts and outlines how additions to the accounts are determined. The 2015

<sup>&</sup>lt;sup>3</sup> The proposed treatment does not apply to the following hydroelectric accounts: Hydroelectric Surplus Baseload Generation Variance Account, Pension and OPEB Cost Variance Account – Hydroelectric, Hydroelectric Deferral and Variance Over/Under Recovery Variance Account, Pension & OPEB Cash Versus Accrual Differential Deferral Account – Hydroelectric and the Niagara Tunnel Project Pre-December 2008 Disallowance Variance Account.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 5 of 34

additions have been determined pursuant to the EB-2014-0370 and EB-2013-0321 payment amount orders.

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#### 5.1 Hydroelectric Water Conditions Variance Account

The Hydroelectric Water Conditions Variance Account was originally established by O. Reg. 53/05. It was subsequently approved by the OEB in EB-2007-0905 and has been approved in all subsequent OPG applications in recognition of the fact that water conditions are subject to a high degree of forecast risk due to factors that are beyond OPG's ability to manage or

control, such as weather.

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This account records the financial impact of differences, including changes in gross revenue charge ("GRC") costs, between the actual production amount for the regulated hydroelectric facilities and the reference production amount, arising from changes in actual water conditions.

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For the previously regulated hydroelectric facilities, OPG determines the hydroelectric production impact of changes in water conditions by entering the actual flow values into the same production forecast models used to calculate the OEB-approved production forecast that underpins the payment amounts approved for these facilities by the OEB. All other variables are held constant. Deviations from forecast are determined as the difference between the calculated production resulting from entering actual flows for the month into the forecast model and the energy production forecast approved by the OEB. The revenue impact of the production variance recorded in this account is determined by multiplying the deviation from forecast, as described above, by the approved payment amount in effect.<sup>4</sup>

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Pursuant to the EB-2014-0370 Payment Amounts Order, for each month after 2015, OPG determines the calculated energy production for the previously regulated hydroelectric

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<sup>&</sup>lt;sup>4</sup> Prior to the effective date of the payment amounts order in this proceeding, the revenue impact of the production variance is determined by multiplying the deviation from forecast by the Eb-2013-0321 previously regulated hydroelectric payment amount of \$40.20/MWh or the EB-2013-0321 newly regulated hydroelectric payment amount of \$41.93/MWh, as applicable. As of the effective date of the payment amounts order in this proceeding, OPG proposes to determine the revenue impact by using the OEB-approved payment amounts in effect during each period pursuant the approved incentive regulation formula.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 6 of 34

- 1 facilities based on actual flows by entering actual water flow values into the 2014 and 2015
- 2 forecast models that underpin the EB-2013-0321 payment amounts and computing an
- 3 average of the resulting imputed monthly energy values from the two models.<sup>5</sup>

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Similar to the previously regulated hydroelectric facilities, for the 21 newly regulated hydroelectric facilities (listed in Attachment 3) that use computer models to forecast production by converting water availability using historical median monthly flows, OPG computes deviations of actual monthly flows from these historical median monthly flows in order to determine the production variances for purposes of the variance account. Pursuant to the EB-2014-0370 Payment Amounts Order, in calculating such deviations for a given period after 2015 OPG uses:<sup>6</sup>

- For January 1 to June 30, the corresponding monthly forecasts for 2015 underpinning the EB-2013-0321 payment amounts order; and
- For July 1 to December 31, the average of the corresponding monthly forecasts for 2014 and 2015 underpinning the EB-2013-0321 payment amounts.

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As of the effective date of the payment amounts order in this proceeding, OPG proposes that the above methods used to calculate deviations in energy production due to actual water flows for periods after 2015 continue to be used to calculate such deviations as of the effective date of the payment amounts order in this proceeding.

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This account records changes in GRC costs from those that underpin the payment amounts that were approved by the OEB, as a result of differences in energy production calculated as described above. Amounts recorded in the account in respect of these costs are determined by multiplying the production deviation by the applicable gross revenue charge rate. The account also records any variances in the amounts payable to the St. Lawrence Seaway Management Corporation for the conveyance of water in the Welland Ship Canal, as well as

<sup>&</sup>lt;sup>5</sup> For each month during 2015, the calculated energy production based on actual flows was determined by entering actual water flow values into the 2015 forecast model underpinning the EB-2013-0321 payment amounts <sup>6</sup> For each month during 2015, deviations of actual monthly flows from historical median flows were determined using the 2015 monthly forecasts underpinning the EB-2013-0321 payment amounts

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 7 of 34

any variances in the amounts payable to the Government of Quebec for water rentals, from those reflected in the payment amounts for regulated hydroelectric facilities that were approved by the OEB.

No computer models exist to forecast production for the 27 of OPG's small regulated hydroelectric stations not listed in Attachment 3. The 27 stations accounted for less than two per cent of total production from all regulated hydroelectric facilities. Given the small size of these 27 facilities, and consistent with the OEB's decision and orders in EB-2013-0321 and EB-2014-0370, such facilities are excluded from the scope of the Hydroelectric Water Conditions Variance Account.

Due to favourable water supply conditions in 2015, hydroelectric production was higher than the forecast production underpinning current rates. This variance resulted in a credit addition of \$17.1M to the account during 2015. The derivation of the variance is shown in Ex. H1-1-1 Table 2.

# 5.2 Ancillary Services Net Revenue Variance Account – Hydroelectric and Nuclear Sub Accounts

The Ancillary Services Net Revenue Variance Account was originally established by O. Reg. 53/05. It was subsequently approved by the OEB in EB-2007-0905 and has been approved in all subsequent OPG applications. This account recognizes that ancillary services revenues are difficult to forecast accurately, with variances between forecast and actual ancillary revenues reflecting changing demand and system/grid operating requirements.<sup>7</sup>

Ancillary services for regulated hydroelectric operations include black start capability, operating reserve, regulation service (formerly referred to as automatic generation control), and reactive support/voltage control service. Ancillary services for nuclear operations include reactive support/voltage control service. Nuclear ancillary services revenue is discussed in Ex. G2-1-1.

<sup>&</sup>lt;sup>7</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 8 of 34

#### 1 Entries into the account will record variances as follows:

- From January 1, 2015 until the effective date of the payment amounts order in this proceeding, for both the nuclear and regulated hydroelectric facilities: the variance between the actual ancillary services net revenue and the average of the monthly forecast amounts for 2014 and 2015 underpinning the revenue requirement approved by the OEB in EB-2013-0321. As per the EB-2014-0370 payment amounts order, the monthly reference amount is \$4.62M for hydroelectric facilities (Appendix B, page 6) and \$0.14M for nuclear facilities (Appendix B, page 11)<sup>8</sup>;
- As of the effective date of the payment amounts order in this proceeding, for the
  regulated hydroelectric facilities: OPG proposes the variance between the actual
  regulated hydroelectric ancillary services net revenue and the average of the monthly
  forecast amounts for 2014 and 2015 underpinning the hydroelectric revenue
  requirement approved by the OEB in EB-2013-0321. As per the EB-2014-0370
  payment amounts order, the monthly reference amount is \$4.62M for hydroelectric
  facilities (Appendix B, page 6);
- As of the effective date of the payment amounts order in this proceeding, for nuclear facilities: OPG proposes the variance between actual nuclear ancillary services net revenue and forecast amounts underpinning the annual nuclear revenue requirements approved by the OEB in this proceeding.

The derivation of the credit entry into the hydroelectric portion of this account for 2015 of \$12.9M, as shown in Ex. H1-1-1 Table 3, is primarily due to higher regulation service revenue and increased operating reserve revenue, partly offset by lower reactive support revenue. The derivation of the debit entry into the nuclear portion of this account for 2015 of \$0.9M is shown in Ex. H1-1-1 Table 3.

<sup>&</sup>lt;sup>8</sup> OPG shall ensure that amounts recorded in the account do not include those that OPG indicated it is not seeking to recover from, or refund to, ratepayers as part of the differences between the revenue requirement in its pre-filed evidence dated September 27, 2013 and the information based on OPG's 2014-2016 Business Plan. These amounts are outlined in OPG's Impact Statement dated December 6, 2013, as found at EB-2013-0321, Ex. N1-1-1 Chart 1.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 9 of 34

### 5.3 Hydroelectric Incentive Mechanism Variance Account

- 2 The Hydroelectric Incentive Mechanism Variance Account was originally approved in EB-
- 3 2010-0008 and has been approved in all subsequent OPG applications. This account
- 4 records a credit to ratepayers of 50 per cent of hydroelectric incentive mechanism ("HIM")
- 5 revenues above an OEB-specified threshold.9

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- 7 The threshold specified in EB-2013-0321 (payment amount order, Appendix G, page 7) and
- 8 in EB-2014-0370 (payment amount order, Appendix B, pages 8-9) was \$51.0M for 2014 and
- 9 \$58.0M for 2015. After December 31, 2015, the annual threshold was set at \$54.5M in EB-
- 10 2014-0370 (payment amounts order, Appendix B, page 9) based on the average 2014-2015
- threshold. OPG proposes that the threshold of \$54.5M continue as of the effective date of the
- 12 payment amounts order in this proceeding.

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- 14 There were no additions to the account for 2015 as actual HIM revenues during 2015 were
- 15 \$26.5M. These revenues were significantly below the specified threshold of \$58M, as shown
- 16 in Ex. H1-1-1 Table 4.

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#### 5.4 Hydroelectric Surplus Baseload Generation Variance Account

- 19 The Hydroelectric Surplus Baseload Generation Variance Account was originally approved in
- 20 EB-2010-0008 and has been approved in all subsequent OPG applications. This account
- 21 records the financial impact of foregone production at the regulated hydroelectric facilities
- due to surplus baseload generation ("SBG") conditions.

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- 24 For the same reasons as noted in the description of the Hydroelectric Water Conditions
- 25 Variance Account above, the 27 small regulated hydroelectric facilities not listed in
- 26 Attachment 3, which comprised less than two per cent of total regulated hydroelectric
- 27 production, are excluded from the scope of this account.

<sup>&</sup>lt;sup>9</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 10 of 34

- 1 Entries in the account have been and are proposed to continue to be calculated by
- 2 multiplying the foregone production volume due to SBG conditions (in MWh) by the approved
- 3 regulated hydroelectric payment amount in effect, net of the avoided GRC costs. 10

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- 5 As described in EB-2013-0321, Ex. E1-2-1, section 3.2, OPG calculates foregone production
- 6 due to SBG by starting with the total volume of spill and subtracting the volume of spill due
- 7 to:
- water conveyance constraints (e.g., Sir Adam Beck Generating Station tunnel
   capacity constraints);
- production capability constraints (e.g., unit outages; operating regulatory
   requirements etc.);
- market constraints (i.e., IESO dispatch constraints: market or transmission system);
   and
  - contractual obligations (e.g., regulation service).

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The remaining spill volume is identified as potential SBG spill. From this potential spill volume, OPG excludes spill that occurs when the Ontario market price is above the level of the GRC. The volume of spill remaining after this adjustment is the foregone production due to SBG that is used to record entries in this account.<sup>11</sup>

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This account records and is proposed to continue to record any variances, as a result of foregone production due to SBG conditions, in the amounts payable to the St. Lawrence Seaway Management Corporation for the conveyance of water in the Welland Ship Canal and any related variances in the amounts payable to Government of Quebec for water rentals.

<sup>&</sup>lt;sup>10</sup> Prior to the effective date of the payment amounts order in this proceeding, the revenue impact of SBG conditions is determined by multiplying the forgone production volume by the OEB-approved previously regulated hydroelectric payment amount of \$40.20/MWh or the OEB-approved newly regulated hydroelectric payment amount of \$41.93/MWh, as applicable. As of the effective date of the payment amounts order in this proceeding, OPG proposes to determine the revenue impact by using the OEB-approved payment amounts in effect for all regulated hydroelectric facilities pursuant to the OEB-approved incentive regulation formula.

<sup>&</sup>lt;sup>11</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 11 of 34

The derivation of the debit addition to this account of \$81.5M for 2015, reflecting approximately 2.8 TWh of total SBG spill, is shown in Ex. H1-1-1 Table 5.

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#### 5.5 Income and Other Taxes Variance Account

The Income and Other Taxes Variance Account was originally approved in EB-2007-0905 and has been approved in all subsequent OPG applications. This account records, and is proposed to continue to record, the financial impact on the revenue requirement of the following 12:

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- Any differences in payments in lieu of corporate income or capital taxes that result from a legislative or regulatory change to the tax rates or rules of the *Income Tax Act* (Canada) and the *Taxation Act*, 2007 (Ontario) (formerly the *Corporations Tax Act* (Ontario), as modified by the regulations under the *Electricity Act*, 1998, and any differences in payments in lieu of property tax to the Ontario Electricity Financial Corporation that result from changes to the regulations under the *Electricity Act*, 1998;
- Any differences in municipal property taxes that result from a legislative or regulatory change to the tax rates or rules for OPG's prescribed assets under the *Assessment Act*, 1990:
- Any differences in payments in lieu of corporate income or capital taxes that result from a change in, or a disclosure of, a new assessing or administrative policy that is published in the public tax administration or interpretation bulletins by relevant federal or provincial tax authorities, or court decisions on other taxpayers; and,
- Any differences in payments in lieu of income or capital taxes that result from assessments or re-assessments (including re-assessments associated with the application of the tax rates and rules to OPG's regulated operations or changes in assessing or administrative policy including those arising from court decisions on other taxpayers). OPG continues to be subject to tax audits from prior years dating back to 2013.

<sup>&</sup>lt;sup>12</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 12 of 34

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1 The reference amounts used to determine entries into the account are as follows:

- From January 1, 2015 until the effective date of the payment amounts order in this
  proceeding, for both the nuclear and regulated hydroelectric facilities: the average of
  the monthly income tax provision for 2014 and 2015 underpinning the revenue
  requirement that was approved by the OEB in EB-2013-0321. As per the EB-20140370 payment amounts order, the monthly reference amount is \$4.83M (Appendix B,
  page 7);
- As of the effective date of the payment amounts order in this proceeding, for the regulated hydroelectric facilities: OPG proposes the average of the monthly income tax provision for 2014-2015 underpinning the hydroelectric revenue requirement approved by the OEB in EB-2013-0321;
- As of the effective date of the payment amounts order in this proceeding, for nuclear facilities: OPG proposes on a monthly basis, 1/12 of the annual income tax provision underpinning the corresponding annual nuclear revenue requirements approved by the OEB in this proceeding.

The derivation of the credit addition to the nuclear portion of this account of \$4.2M in 2015 is shown in Ex. H1-1-1 Table 6.<sup>13</sup> That addition to the nuclear portion of this account, which was recorded following the resolution during 2015 of the 2011 taxation year audit to reflect the related increase in the Scientific Research and Experimental Development ("SR&ED") Investment Tax Credits ("ITCs") recognition percentage from 75 per cent to 100 per cent for 2011. The addition is the same in nature and calculation as the equivalent SR&ED ITCs impacts previously recorded in the account in relation to resolution of prior year tax audits.

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#### 5.6 Capacity Refurbishment Variance Account

SR&ED ITCs are discussed further in Ex. F4-2-1.

The Capacity Refurbishment Variance Account was originally approved in EB-2007-0905 and has been approved in all subsequent OPG applications. This account was established pursuant to section 6(2)4 of O. Reg. 53/05 to record variances between the actual capital and non-capital costs and firm financial commitments incurred to increase the output of,

<sup>&</sup>lt;sup>13</sup> The credit addition to the regulated hydroelectric portion of the account in 2015 was less than \$0.05M.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 13 of 34

refurbish or add operating capacity to a prescribed generation facility referred to in section 2 of O. Reg. 53/05 and those forecast costs and firm financial commitments underpinning the revenue requirement that was approved by the OEB. In 2015, O. Reg. 53/05 was amended to affirm that the scope of this account includes the capital and non-capital costs and firm financial commitments incurred in respect of the Darlington Refurbishment Program ("DRP"). As required by O. Reg. 53/05, Section 6(2)4, this account will continue to include assessment costs and pre-engineering costs and commitments.<sup>14</sup>

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Entries into the account will record variances as follows:

- Until the effective date of the payment amounts order in this proceeding, for both the
  nuclear and regulated hydroelectric facilities: the variance between actual capital and
  non-capital costs and firm financial commitments and those capital and non-capital
  forecast costs and firm financial commitments underpinning the revenue requirement
  approved by the OEB in EB-2013-0321<sup>15</sup>;
- As of the effective date of the payment amounts order in this proceeding, for the
  regulated hydroelectric facilities: OPG proposes the variance between actual capital
  and non-capital costs and firm financial commitments and the 2014-2015 average
  forecast capital and non-capital costs and firm financial commitments underpinning
  the hydroelectric revenue requirement approved by the OEB in EB-2013-0321;
- As of the effective date of the payment amounts order in this proceeding, for nuclear facilities: OPG proposes the variance between actual capital and non-capital costs and firm financial commitments and those forecast capital and non-capital costs and firm financial commitments underpinning the annual nuclear revenue requirements approved by the OEB in this proceeding.

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The derivation of the debit entry into the regulated hydroelectric portion of this account for 2015 of \$1.2M is shown in Ex. H1-1-1 Table 7. That relatively small entry was due to

<sup>&</sup>lt;sup>14</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

<sup>&</sup>lt;sup>15</sup> OPG shall ensure that amounts recorded in the account do not include those that OPG indicated it is not seeking to recover from, or refund to, ratepayers as part of the differences between the revenue requirement in its pre-filed evidence dated September 27, 2013 and the information based on OPG's 2014-2016 Business Plan. These amounts are outlined in OPG's Impact Statement dated December 6, 2013, as found at EB-2013-0321, Ex. N1-1-1 Chart 1.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 14 of 34

- 1 variances in respect of several projects across the regulated hydroelectric fleet. The
- 2 December 31, 2015 regulated hydroelectric balance in the account is a debit of \$83.2M, as
- 3 shown in Ex. H1-1-1 Table 1. The regulated hydroelectric balance relates largely to the
- 4 Niagara Tunnel Project.

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The derivation of the credit entry into the nuclear portion of this account for 2015 of \$68.9M is shown in Ex. H1-1-1 Table 11. That entry was largely due to a ratepayer credit recorded on account of the tax deduction for DRP-related SR&ED expenditures and non-capital credit additions (i.e., OM&A expenses) to the account associated with the DRP, the Fuel Channel Life Cycle Management Project and Pickering Continued Operations, partly offset by the debit non-capital additions for the Fuel Channel Life Extension Project. The DRP and associated capital expenditures and in-service amounts are discussed in Ex. D2-2-1 and accompanying exhibits. The DRP OM&A expenses are discussed in Ex. F2-7-1. Further information on the Pickering Extended Operations initiative and related fuel channel work can be found in Ex. F2-2-3.

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#### 5.7 Pension and OPEB Cost Variance Account

- The Pension and OPEB Cost Variance Account was originally approved in EB-2011-0090 and was continued in subsequent proceedings. This account records the difference between:
  - (1) the pension and OPEB costs, plus related income tax PILs, reflected in the current revenue requirement approved by the OEB (i.e., the reference amount); and,
  - (2) OPG's actual pension and OPEB costs, and associated tax impacts, for the prescribed generation facilities.

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Actual pension and OPEB costs used in the calculation of the difference are calculated on an accrual basis using the same accounting standards as those used to derive the reference amount.

- 29 The balance in this account as at December 31, 2012, including interest accrued to that date,
- 30 was split into the Historic Recovery and Future Recovery components, as ordered by the
- 31 OEB in EB-2012-0002. In order to facilitate the presentation of entries into the account, OPG

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 15 of 34

has shown, as a separate component, the account additions post-2012 ("post-2012 additions")<sup>16</sup>. The December 31, 2014 balance in the Historic Recovery component was transferred to the Hydroelectric Deferral and Variance Over/Under Recovery Variance Account and the Nuclear Deferral and Variance Over/Under Recovery Variance Account as ordered by the OEB in EB-2013-0321. The two remaining components (i.e., Future Recovery and post-2012) are shown separately in Ex. H1-1-1 Table 1 for the regulated hydroelectric facilities and nuclear facilities.

As ordered by the OEB in EB-2013-0321 and EB-2014-0370, there were no additions to the account in 2015. The total December 31, 2015 debit balance in the hydroelectric portion of the account is \$42.0M. The 2015 balance in the hydroelectric portion of the account consists of \$9.5M for the Future Recovery component and \$32.5M for the post-2012 additions, as shown in Ex. H1-1-1 Table 1.

 The total December 31, 2015 debit balance in the nuclear portion of the account is \$815.2M. The 2015 balance in the nuclear portion of the account consists of \$193.2M for the Future Recovery component and \$622.0M for the post-2012 additions, as shown in Ex. H1-1-1 Table 1.

The Future Recovery component (for both regulated hydroelectric and nuclear facilities) was previously authorized by the OEB to be recovered over the period to December 31, 2024, and the post-2012 additions to June 30, 2021. OPG's clearance proposal in this Application, set out in Ex. H1-2-1, continues these previously scheduled amortization periods.

Interest is not recorded or proposed to be recorded on the balance in the Pension and OPEB Cost Variance Account as ordered by the OEB in the EB-2013-0321 and EB-2014-0370.

OPG is not proposing to record additions to this account during the test period. Rather, OPG is proposing to record additions to the Pension & OPEB Cash Payment Variance Account and the Pension & OPEB Cash Versus Accrual Differential Deferral Account. As described at

<sup>&</sup>lt;sup>16</sup> These additions were recorded for the period from January 1, 2013 to October 31, 2014.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 16 of 34

- 1 Ex. F4-3-2, this approach is consistent with OPG's proposal to maintain the same treatment
- 2 for pension and OPEB costs as that resulting from the OEB's EB-2013-0321 Decision,
- 3 pending the outcome of the OEB's generic proceeding on pension and OPEB costs (EB-
- 4 2015-0040).

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#### 5.8 Hydroelectric Deferral and Variance Over/Under Recovery Variance Account

7 The Hydroelectric Deferral and Variance Over/Under Recovery Variance Account was

originally approved in EB-2009-0174 and has been approved in all subsequent OPG

applications. This account records the differences between the amounts approved for

recovery in the hydroelectric deferral and variance accounts and the actual amounts

recovered based on the actual regulated hydroelectric production and approved riders.

12 Pursuant to the OEB's orders, the account also captures the transfer of the hydroelectric

portions of the balances remaining in other accounts as they expire from time to time. 17

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15 The derivation of the \$13.3M debit addition to the account for 2015 is shown in Ex. H1-1-1

16 Table 9. There were no transfers from expiring accounts in 2015.

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#### 5.9 Gross Revenue Charge Variance Account

19 The Gross Revenue Charge Variance Account was originally approved in EB-2013-0321. It

records the cost impact of a gross revenue charge reduction under Ontario Regulation

124/02, once approved by the Ontario Ministry of Natural Resources and Forestry, pertaining

to production increases at OPG's Sir Adam Beck plants due to the operation of the new

23 Niagara tunnel.

24

25 The impact for 2014 and 2015, if any, will be determined by applying the approved reduction

26 to the forecast gross revenue charge costs included in the hydroelectric revenue requirement

27 that was approved by the OEB in EB-2013-0321 for 2014 and 2015, holding all other

28 variables constant. The impact will be calculated as of the later of November 1, 2014 and the

29 effective date of the approved gross revenue charge reduction.

<sup>&</sup>lt;sup>17</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 17 of 34

- 1 Post-2015, the impact will be determined by applying the approved reduction to the 2014-
- 2 2015 forecast gross revenue charge costs included in the revenue requirement that were
- 3 approved by the OEB in EB-2013-0321, averaged as applicable, holding all other variables
- 4 constant.

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- As no decision on the GRC reduction had been issued by the Ministry of Natural Resources
- 7 and Forestry in 2015, there were no entries into the account during that year.

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#### 5.10 Pension & OPEB Cash Payment Variance Account

- 10 The Pension & OPEB Cash Payment Variance Account was approved in EB-2013-0321. It
- records the difference between OPG's actual registered pension plan contributions ("RPP")
- 12 and other post employment benefit ("OPEB") plan payments (including the long-term
- disability benefit plan) attributed to the prescribed generating facilities, and such forecast
- 14 amounts underpinning the revenue requirement approved by the OEB in EB-2013-0321 (the
- 15 "reference amount").

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- 17 As described at Ex. F4-3-2, OPG proposes to maintain the same treatment for recovering
- 18 pension and OPEB costs during the test period as that resulting from the EB-2013-0321
- 19 Decision (pp. 87-89), pending the outcome of the OEB's EB-2015-0040 consultation on
- 20 pension and OPEB costs. In particular, OPG proposes to include pension and OPEB cash
- 21 amounts in the test period nuclear revenue requirements, and, for both regulated
- 22 hydroelectric and nuclear facilities, to record differences between actual and forecast cash
- 23 amounts in the Pension & OPEB Cash Payment Variance Account. OPG also proposes to
- 24 defer the difference between actual accrual costs and actual cash amounts in the Pension &
- 25 OPEB Cash Versus Accrual Differential Deferral Account discussed below.

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- Entries into the account will be recorded as follows:
- For the period November 1, 2014 until the effective date of the payment amounts order in this proceeding, for both the nuclear and regulated hydroelectric facilities:
- the difference between actual RPP contributions and OPEB payments (including the
- 31 long-term disability benefit plan) attributed to the prescribed generating facilities and

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 18 of 34

- such forecast amounts underpinning the revenue requirement approved by the OEB in EB-2013-0321. As per the EB-2014-0370 payment amounts order (Appendix B, pages 15-16), the monthly reference amounts are \$27.15M for OPG's RPP contributions (\$23.38M for the nuclear facilities, \$1.32M for the previously regulated hydroelectric facilities, and \$2.44M for the newly regulated hydroelectric facilities) and \$7.73M for OPG's OPEB payments (\$6.66M for the nuclear facilities, \$0.38M for the previously regulated hydroelectric facilities, and \$0.69M for the newly regulated hydroelectric facilities);
- As of the effective date of the payment amounts order in this proceeding, for the regulated hydroelectric facilities: OPG proposes the difference between OPG's actual RPP contributions and OPEB payments (including the long-term disability benefit plan) attributed to the prescribed generating facilities and such forecast amounts underpinning the hydroelectric revenue requirement approved by the OEB in EB-2013-0321. As per the EB-2014-0370 payment amounts order (Appendix B, pages 15-16), the monthly reference amounts for OPG's RPP contributions are \$1.32M for the previously regulated hydroelectric facilities and \$2.44M for the newly regulated hydroelectric facilities and \$0.69M for the newly regulated hydroelectric facilities:
- As of the effective date of the payment amounts order in this proceeding, for the nuclear facilities: OPG proposes the difference between OPG's actual RPP contributions and OPEB payments (including the long-term disability benefit plan) attributed to the prescribed generating facilities and such forecast amounts underpinning the annual nuclear revenue requirements approved by the OEB in this proceeding.

Pursuant to the OEB's decision in EB-2013-0321, interest applies to this variance account. OPG records interest on the balance of the variance account effective November 1, 2014, in accordance with Appendix B of the EB-2014-0370 Payment Amounts Order.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 19 of 34

- 1 OPG is proposing to clear the total December 31, 2015 debit balance in this account of
- 2 \$27.7M. The total December 31, 2015 debit balance in the hydroelectric portion of the
- 3 account is \$4.3M, as shown in Ex. H1-1-1 Table 1. The derivation of the \$4.1M debit addition
- 4 to the account in 2015 is shown in Ex. H1-1-1 Table 8.

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- 6 The total December 31, 2015 debit balance in the nuclear portion of the account is \$23.4M,
- 7 as shown in Ex. H1-1-1 Table 1. The derivation of the \$17.0M debit addition to the account in
- 8 2015 is shown in Ex. H1-1-1 Table 8. The cash amounts for pension and OPEB are
- 9 discussed in Ex. F4-3-2.

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#### 5.11 Pension and OPEB Cash Versus Accrual Differential Variance Account

- 12 The Pension & OPEB Cash Versus Accrual Differential Deferral Account was approved in
- 13 EB-2013-0321. The account records differences between: (i) OPG's actual pension and
- 14 OPEB costs for its prescribed generating facilities determined using the accrual accounting
- method applied in OPG's audited consolidated financial statements; and, (ii) OPG's actual
- 16 registered pension plan contributions and other post employment benefit plan payments
- 17 (including the long-term disability benefit plan) attributed to OPG's prescribed generating
- 18 facilities.

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- 20 As discussed above and at Ex. F4-3-2, OPG proposes to maintain the same treatment for
- 21 recovering pension and OPEB costs during the test period as that resulting from the EB-
- 22 2013-0321 Decision (pp. 87-89), pending the outcome of the OEB's EB-2015-0040
- 23 consultation on pension and OPEB costs. In particular, OPG proposes to include pension
- 24 and OPEB cash amounts in the test period nuclear revenue requirements, and, for both
- 25 regulated hydroelectric and nuclear facilities, to record differences between actual accrual
- 26 costs and actual cash amounts in the Pension & OPEB Cash Versus Accrual Differential
- 27 Deferral Account.

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- 29 Entries into the account will record variances as follows:
  - From November 1, 2014 until the effective date of the payment amounts order in this proceeding, for both the nuclear and regulated hydroelectric facilities: the difference

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 20 of 34

between OPG's actual pension and OPEB costs for its prescribed generating facilities determined using the accrual accounting method applied in OPG's audited consolidated financial statements and OPG's actual RPP contributions and OPEB payments (including the long-term disability benefit plan) attributed to OPG's prescribed generating facilities;

As of the effective date of the payment amounts order in this proceeding, for both the
nuclear and regulated hydroelectric facilities: OPG proposes the difference between
OPG's actual pension and OPEB costs for its prescribed generating facilities
determined using the accrual accounting method applied in OPG's audited
consolidated financial statements and OPG's actual RPP contributions and OPEB
payments (including the long-term disability benefit plan) attributed to OPG's
prescribed generating facilities.

OPG proposes to make these entries in the same manner as pursuant to the EB-2013-0321 and EB-2014-0370 payment amount orders.

Pursuant to the OEB's decision in EB-2013-0321, no interest is applied or proposed to apply to this variance account.

OPG is not proposing to clear the total December 31, 2015 debit balance in this account of \$315.2M. Clearance of the balance in this account is subject to the completion of the OEB's generic proceeding on pension and OPEB costs, which has not concluded at the time of filing this Application. Consistent with the OEB's findings in EB-2013-0321, OPG is proposing that the future consideration of recovery of the difference between accrual costs and cash amounts for the test period be limited to the outcome of the generic consultation and not be subject to a future prudence review beyond the proceeding for this Application.

The total December 31, 2015 debit balance in the regulated hydroelectric portion of the account is \$44.2M, as shown in Ex. H1-1-1 Table 1. The derivation of the \$39.5M debit addition to the account in 2015 is shown in Ex. H1-1-1 Table 8.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 21 of 34

- 1 The total December 31, 2015 debit balance in the nuclear portion of the account is \$271.1M,
- 2 as shown in Ex. H1-1-1 Table 1. The derivation of the \$239.8M debit addition to the account
- 3 in 2015 is shown in Ex. H1-1-1 Table 8.

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- 5 Actual accrual costs and cash amounts for pension and OPEB plans are discussed in Ex.
- 6 F4-3-2, which includes, as Attachment 1, an independent actuary's report from Aon Hewitt, in
- 7 support of the November 2014 through December 2015 pension and OPEB amounts
- 8 underpinning the additions recorded in this account.

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#### 5.12 Niagara Tunnel Project Pre-December 2008 Disallowance Variance Account

- 11 The Niagara Tunnel Project Pre-December 2008 Disallowance Variance Account was
- 12 approved in EB-2014-0369. Effective November 1, 2014, this account records the difference
- between the annual revenue requirement impact of the original Niagara Tunnel Project rate
- 14 base addition disallowance of \$28.0 million in EB-2013-0321 and the varied disallowance of
- 15 \$6.4 million per EB-2014-0369.

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- As the account was approved in 2016, there were no entries in the account in 2015. As of
- 18 the effective date of the payment amounts for this proceeding, this account is proposed to
- 19 continue to record the above impact because OPG does not propose to adjust the base EB-
- 20 2013-0321 regulated hydroelectric rates, which are proposed to form the basis of the
- 21 hydroelectric payment amounts starting in 2017, for the reduced disallowance.

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#### 5.13 Nuclear Liability Deferral Account

- 24 The Nuclear Liability Deferral Account was originally approved in EB-2007-0905 pursuant to
- 25 O. Reg. 53/05 and has been approved in all subsequent OPG applications. In accordance
- with section 5.2(1) of O. Reg. 53/05, this account records the revenue requirement impact on
- 27 the prescribed facilities of any change in OPG's nuclear decommissioning and used fuel and
- 28 waste management liabilities arising from an approved reference plan under the Ontario

<sup>&</sup>lt;sup>18</sup> Entries recorded in 2016 will be calculated retrospectively as of November 1, 2014 pursuant to the EB-2014-0369 decision and order.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 22 of 34

1 Nuclear Funds Agreement ("ONFA") measured against the forecast impact reflected in the

revenue requirement approved by the OEB.

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Ontario Regulation 53/05 defines the "nuclear decommissioning liability" as "the liability of Ontario Power Generation Inc. for decommissioning its nuclear generating facilities and the

management of its nuclear waste and nuclear fuel." An "approved reference plan" is defined

as "a reference plan, as defined in the Ontario Nuclear Funds Agreement, which has been

approved by Her Majesty the Queen in the right of Ontario in accordance with that

agreement."

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Entries into the account will record the revenue requirement impact of any change in OPG's nuclear liabilities arising from an approved ONFA reference plan measured against the forecast impact reflected in the revenue requirement approved by the OEB<sup>19</sup>, as follows:

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 Until the effective date of the payment amounts order in this proceeding the revenue requirement approved by the OEB in EB-2013-0321 will be used to record entries into the account;

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As of the effective date of the payment amounts order in this proceeding: OPG
proposes to use the annual nuclear revenue requirements approved by the OEB in
this proceeding to record entries into the account.

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As discussed in Ex. C2-1-1, the next ONFA reference plan, effective for 2017 to 2021, is being developed and will be subject to the Province's review. Once the updated reference plan is effective, OPG expects to record entries into this account.<sup>20</sup>

<sup>&</sup>lt;sup>19</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

<sup>20</sup> Until such time as new payment amounts reflecting the December 31, 2015 changes in nuclear station end-of-life dates and impacts arising from the associated nuclear liability adjustment effective on December 31, 2015 (see Ex. C2-1-1) are in effect, and therefore the additions are being recorded in the Impact Resulting from Changes in Station End-of-Life Dates (December 31, 2015) Deferral Account (discussed in section 5.18), any additions to the Nuclear Liability Deferral Account related to the 2017 ONFA Reference Plan will be calculated such that they do not duplicate impacts recorded in the Impact Resulting from Changes in Station End-of-Life Dates (December 31, 2015) Deferral Account

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 23 of 34

For entries prior to the effective date of the payment amounts in this proceeding, OPG records the return on rate base in the account using the weighted average accretion rate on 3 its nuclear liabilities of 5.37 per cent. This rate was established in EB-2013-0321 As of the effective date of the OEB's payment amounts order in this proceeding, a weighted average accretion rate of 5.11 per cent is being proposed by OPG (see Ex. C2-1-1). The annual weighted average accretion rate approved by the OEB for the "lesser of Unfunded Nuclear Liabilities and Asset Retirement Cost" provision in OPG's approved capital structure shall apply as of the effective date of the payment amounts order in this proceeding.

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As previously ordered by the OEB, OPG will continue not to record any interest on the balance of the Nuclear Liability Deferral Account.

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There are no account additions for 2015 as the nuclear liabilities impact arising from the current approved ONFA Reference Plan effective January 1, 2012 is included in the OEBapproved 2015 revenue requirement.

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#### **Nuclear Development Variance Account**

The Nuclear Development Variance Account was established in accordance with section 5.4 of O. Reg. 53/05. The account was originally approved in EB-2007-0905 and has been approved in all subsequent OPG applications. This account records variances between the actual non-capital costs incurred and firm financial commitments made in the course of planning and preparation for the development of proposed new nuclear generation facilities and those forecast costs and firm financial commitments reflected in the revenue requirement approved by the OEB (the "reference amount").<sup>21</sup>

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Entries into the account will record differences, as follows:

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• From January 1, 2015 until the effective date of the payment amounts order in this proceeding: the difference between actual non-capital costs and firm financial commitments and those forecast costs and firm financial commitments reflected in

<sup>&</sup>lt;sup>21</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 24 of 34

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- the revenue requirement approved by the OEB in EB-2013-0321. As per the EB-2014-0370 payment amounts order, the monthly reference amount is \$0 (Appendix B, page 11);
  - As of the effective date of the payment amounts order in this proceeding: OPG proposes the difference between actual non-capital costs and firm financial commitments and those forecast costs and firm financial commitments reflected in the annual revenue requirements approved by the OEB in this proceeding.

9 The derivation of the \$1.3M debit addition to the account for 2015 is shown in Ex. H1-1-1 10 Table 10.

#### 5.15 **Bruce Lease Net Revenues Variance Account**

13 The Bruce Lease Net Revenues Variance Account was originally approved by the OEB in 14 EB-2007-0905 in order to ensure that OPG recovers its actual costs associated with the 15 Bruce facilities and that the payment amount is adjusted to reflect the actual revenues net of 16 costs earned from the Bruce lease. This account has been approved in all subsequent OPG 17 applications.

This account continues to record differences between (i) the forecast revenues and costs related to the Bruce lease that are factored into the nuclear revenue requirement approved by the OEB (the "reference amount"), and (ii) OPG's actual revenues and costs in respect of the Bruce facilities.<sup>22</sup>

The variance recorded in this account is measured by comparing the Bruce lease net revenues credited to customers monthly through the approved nuclear payment amount to the actual monthly Bruce lease net revenues realized by OPG. The monthly Bruce lease net revenues credited to customers is equal to the rate of recovery reflected in the nuclear revenue requirement approved by the OEB multiplied by OPG's actual nuclear production.

29 The rate of recovery is calculated by dividing the forecast Bruce lease net revenues reflected

<sup>&</sup>lt;sup>22</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 25 of 34

1 in the OEB-approved nuclear revenue requirement by the OEB-approved nuclear production

2 forecast.

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4 Pursuant to the EB-2012-0002 payment amounts order and continued in subsequent proceedings, this account was divided into two sub-accounts as follows:

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<u>Derivative Sub-Account:</u> The Derivative Sub-Account captures impacts related to changes in the fair value of the derivative liability for the conditional supplemental rent rebate provision of the Bruce lease (including associated income tax impacts on Bruce lease net revenues calculated in accordance with generally accepted accounting principles for unregulated entities) and the rent rebates associated with supplemental rent revenue.

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16 17 Pursuant to EB-2012-0002 and EB-2014-0370, the amortization of the Derivative Sub-Account was set equal to the amount of the supplemental rent rebate forecast to be payable to Bruce Power by OPG for each year and associated income tax impacts, adjusted by the difference between amounts previously recovered for the derivative and the actual rent rebates paid by OPG to Bruce Power and associated income taxes.<sup>23</sup> The amortization amounts approved in EB-2014-0370 reflected a forecast rebate payable (and associated income taxes) for 2015 and 2016.

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As discussed in Ex. G2-2-1, pursuant to the 2015 amendment to the Bruce lease agreement, the provision for a conditional supplemental rent rebate was removed effective December 4, 2015. As a result, the derivative liability was fully reversed by the end of 2015. The reversal had the effect of increasing Bruce lease net revenues in 2015 and triggered a corresponding reduction in the amount recorded as recoverable from ratepayers in the Derivative Sub-Account.

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Taking into account the above impacts and EB-2014-0370 approved amortization amounts, by the end of 2016, OPG expects the Derivative Sub-Account to have a credit balance of

<sup>&</sup>lt;sup>23</sup> To the extent that the actual supplemental rent rebate amounts paid to Bruce Power and associated income tax impacts differ from the approved amortization amounts, such differences are reflected in the Derivative Sub-Account for future disposition.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 26 of 34

- 1 \$68.6M, as shown in Ex. H1-2-1 Table 2, col. (c), line 6. The credit largely represents the
- 2 amount that the OEB authorized to be collected for the Bruce Derivative for the post-
- 3 December 3, 2015 period through the EB-2014-0370 rate riders that is no longer
- 4 necessary.<sup>24</sup> OPG proposes to return this over-collection amount to ratepayers over the
- 5 2017-2018 period as part of its deferral and variance account clearance proposal in this
- 6 Application. There will be no further additions to the account and the account balance is
- 7 expected to be nil once the proposed clearance is complete.

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- Non-Derivative Sub-Account: The Non-Derivative Sub-Account captures variances in non-
- 10 derivative elements of the Bruce lease net revenues, including the cost impact of any
- 11 changes in OPG's liability for decommissioning the Bruce nuclear generating facilities and
- the management of nuclear waste and nuclear fuel related to the Bruce stations.

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- Entries into the account will record variances, as follows:
  - From January 1, 2015 until the effective date of the payment amounts order in this proceeding: the difference between actual revenues and costs in respect of the Bruce facilities and such forecast revenues and costs reflected in the revenue requirement approved by the OEB in EB-2013-0321. As per the EB-2014-0370 payment amounts order, the monthly reference amount is \$3.35M (Appendix B, page 12)<sup>25</sup>;
  - As of the effective date of the payment amounts order in this proceeding: OPG
    proposes the difference between actual revenues and costs in respect of the Bruce
    facilities and such forecast revenues and costs reflected in the annual revenue
    requirements approved by the OEB in this proceeding.

<sup>&</sup>lt;sup>24</sup> For the period from January 1, 2015 to December 3, 2015, as anticipated in EB-2014-0370, the supplemental rent rebate was triggered and subsequently paid by OPG (on a pro-rated basis) in accordance with the terms of the Bruce lease agreement in effect prior to the 2015 amendment.

<sup>&</sup>lt;sup>25</sup> OPG shall ensure that amounts recorded in the account do not include those that OPG indicated it is not seeking to recover from, or refund to, ratepayers as part of the differences between the revenue requirement in its pre-filed evidence dated September 27, 2013 and the information based on OPG's 2014-2016 Business Plan. These amounts are outlined in OPG's Impact Statement dated December 6, 2013, as found at EB-2013-0321, Ex. N1-1-1 Chart 1.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 27 of 34

In accordance with the EB-2014-0370 payment amounts order, no interest is applied to either of the sub-accounts of the Bruce Lease Net Revenues Variance Account during the period from January 1, 2015 to December 31, 2016. As the Derivative Sub-Account will not record further additions as described above, OPG proposes for this treatment to continue until the account is fully cleared. OPG proposes that interest on the Non-Derivative Sub-Account resume as of the effective date of the payments amounts order in this Application.<sup>26</sup>

The 2015 credit addition of \$168.7M to the Derivative Sub-Account is shown in Ex. H1-1-1 Table 12. This entry is the net amount of a credit entry of \$224.0M (after tax) for the Bruce derivative reversal in December 2015, and debit entries from earlier in the year of approximately \$55.4M (after tax) that represented increases in the fair value of the Bruce derivative liability due to increases in probability-weighted expectations of rebates becoming payable in future years.

The derivation of the 2015 debit addition of \$20.6M to the Non-Derivative Sub-Account is shown in Ex. H1-1-1 Table 12.

#### 5.16 Pickering Life Extension Depreciation Variance Account

The Pickering Life Extension Depreciation Variance Account was originally approved in EB-2012-0002 to record a credit amount of \$46.9M per year for the period from January 1, 2013 until the effective date of new nuclear payment amounts (excluding riders), reflecting the then-revised service lives, for depreciation purposes, of the Pickering stations. As the payment amounts authorized in the EB-2013-0321 payment amounts order reflected these revised service lives, effective November 1, 2014, OPG records only amortization in the account. No interest is recorded on the balance in this account, as ordered by the OEB.

The December 31, 2015 balance in the account is \$5.2M, as shown in Ex. H1-1-1 Table 1.

The December 31, 2015 balance in the account is expected to be fully amortized by

<sup>&</sup>lt;sup>26</sup> If the effective date of the payment amounts order is subsequent to January 1, 2017 and since the EB-2014-0370 Payment Amounts Order specifically requires that no interest be recorded on the Bruce Lease Net Revenues Variance Account until December 31, 2016, OPG expects to resume recording interest in the account starting on January 1, 2017 until such time as the payment amounts order is issued in this proceeding.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 28 of 34

- 1 December 31, 2016 pursuant to the EB-2014-0370 payment amounts order (Ex. H1-2-1
- 2 Table 2, line 14). As such, OPG proposes to terminate this account as of the effective date of
- 3 the payment amounts order in this proceeding and to transfer any remaining balance
- 4 (expected to be nil) to the Nuclear Deferral and Variance Over/Under Recovery Variance
- 5 Account.

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#### 5.17 Nuclear Deferral and Variance Over/Under Recovery Variance Account

- 8 The Nuclear Deferral and Variance Over/Under Recovery Variance Account was originally
- 9 approved in EB-2009-0174 and has been approved in all subsequent OPG applications. This
- 10 account records the difference between the amounts approved for recovery in the nuclear
- 11 deferral and variance accounts and the actual amounts recovered based on the actual
- 12 nuclear production and approved riders. Pursuant to OEB's orders, the account also
- 13 captures the transfer of the nuclear portions of the balances remaining in other accounts as
- 14 they expire from time to time.<sup>27</sup>

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- The derivation of the \$43.5M debit addition to the account for 2015 is shown in Ex. H1-1-1
- 17 Table 13. There were no transfers from expiring accounts in 2015.

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## 5.18 Impact Resulting from Changes in Station End-of-Life Dates (December 31,

### 2015) Deferral Account

- 21 The Impact Resulting from Changes in Station End-of-Life Dates (December 31, 2015)
- 22 Deferral Account was approved in EB-2015-0374. Effective January 1, 2016, this account
- 23 records the revenue requirement impact arising from changes to nuclear liabilities and
- 24 depreciation and amortization expense resulting from changes to station end-of-life ("EOL")
- 25 dates for Bruce, Pickering and Darlington nuclear generating stations that are effective
- 26 December 31, 2015.

- 28 Pursuant to the EB-20105-0374 decision and order, the account entries will continue until the
- 29 effective date of the payment amounts order for this proceeding incorporating the extended
- 30 nuclear station EOL dates in nuclear payment amounts.

<sup>&</sup>lt;sup>27</sup> The methodology used to record entries into this account is the same as previously approved by the OEB.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 29 of 34

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No interest is recorded on the balance of this account as per the EB-2015-0374 decision and order nor is proposed to be recorded in the future.

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Further details relating to the impact (a ratepayer credit) being recorded in this account effective January 1, 2016 as well as the 2017-2021 projected revenue requirement impact of the December 31, 2015 changes to the nuclear liabilities reflecting the above changes to station EOL dates are provided in Ex. C2-1-1.

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#### 6.0 PROPOSED NEW ACCOUNTS

- 11 OPG proposes the following new deferral and variance accounts. Each account satisfies the
- 12 OEB's deferral and variance account eligibility criteria of causation, materiality and prudence.

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#### 6.1 Rate Smoothing Deferral Account

- 15 The Rate Smoothing Deferral Account is established in accordance with section 5.5 of O.
- Reg. 53/05. Effective January 1, 2017, this account will record the difference between: (i) the
- total annual nuclear revenue requirement approved by the OEB; and, (ii) the portion of that
- 18 revenue requirement in (i) that is used in connection with setting the nuclear payment
- amounts in each year ("the annual deferral amount").

20

- 21 According to O. Reg. 53/05, the annual deferral amount will be recorded in this account from
- 22 January 1, 2017 until the DRP ends (the "deferral period"). The regulation requires the OEB
- 23 to determine the revenue requirement for OPG's nuclear facilities on a five-year basis for the
- 24 first ten years of the deferral period and, thereafter, on such periodic basis as the OEB
- 25 determines. The regulation also requires the OEB to determine the annual deferral amount
- 26 with a view to making more stable the year-over-year changes in the nuclear payment
- 27 amount.

- 29 OPG proposes to set the annual deferral amount to achieve annual smoothed payment
- 30 amount increases of 11 per cent over the January 1, 2017 to December 31, 2021 period
- 31 when combined with the OEB-approved nuclear production forecast in this Application. OPG

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 30 of 34

- will record 1/12<sup>th</sup> of the annual deferral amount each month. OPG's rate smoothing proposal
- 2 is described at Ex. A1-3-3 and the proposed annual deferral amounts are shown in Ex. A1-3-
- 3 3, Chart 4.

4

- 5 The regulation stipulates that the OEB shall ensure that OPG recovers the balance recorded
- 6 in the deferral account and shall authorize recovery of the account balance on a straight line
- 7 basis over a period not to exceed ten years commencing at the end of the deferral period.
- 8 The regulation also stipulates that the deferral account shall record interest on the balance of
- 9 the account at a long-term debt rate reflecting OPG's cost of long-term borrowing approved
- by the OEB from time to time, compounded annually. OPG will record interest based on the
- 11 monthly opening balance in the account.

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#### 6.2 Mid-term Nuclear Production Variance Account

2019 to review and update the nuclear production forecast and corresponding fuel costs for the July 1, 2019 to December 31, 2021 period. To effect this proposal, OPG proposes establishing the Mid-term Nuclear Production Variance Account to record the impact of the production variance from July 1, 2019 to December 2021. The production variance will be the difference between: (i) the nuclear production forecast approved in this Application and, (ii) the nuclear production forecast approved in the mid-term review application. To determine entries into the account, the monthly production variance will be multiplied by the approved smoothed nuclear payment amount. The resulting amount would then be reduced by an

As set out in detail in Ex. A1-3-3, OPG seeks approval to file an application in the first half of

- 23 amount determined as the monthly production variance multiplied by the average fuel cost in
- the approved revenue requirement for the applicable year.

- OPG's 2017-2021 nuclear production forecast is presented in Ex. E2-1-1. OPG's rate
- 27 smoothing and mid-term production review proposals are described at Ex. A1-3-3. As
- described in Ex. A1-3-3, the purpose of this account is to mitigate the significant production
- 29 risk associated with setting nuclear payment amounts over the five-year term of this
- 30 Application. That production risk is expected to increase during the second half of the five-
- 31 year term in light of the DRP and work to enable Pickering Extended Operations.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 31 of 34

This account would protect both customers and OPG symmetrically, depending on whether OPG's nuclear production forecast approved at the mid-term production review application is higher or lower than the nuclear production forecast approved in this Application. If production is higher than currently forecast, the higher production would result in a credit balance in the account, to be refunded to customers. If production is lower than forecast, OPG may not recover its revenue requirement and a debit balance in the account would be required. Mitigating this risk benefits both customers and the company.

Since the inception of regulation by the OEB, there have been a number of variances between OEB–approved production forecasts and actual production. It has proven difficult to forecast nuclear production in the past where OPG's Pickering and Darlington facilities were operating in a comparatively steady state when compared to the operating circumstances that will be facing these facilities during the upcoming application period. Even with the midterm production review, the proposed ratemaking methodology will result in a substantial increase in production forecast risk compared to previous applications.<sup>28</sup>

This account is proposed to take effect on July 1, 2019.

#### 6.3 Nuclear ROE Variance Account

OPG proposes establishing the Nuclear ROE Variance Account to record the nuclear revenue requirement impact of the difference between the return on equity ("ROE") approved by the OEB for the nuclear business in 2018 to 2021 in this proceeding as part of the revenue requirements for those years and the actual annually updated ROE specified by the OEB.

OPG's Application incorporates an ROE of 9.19 per cent for each year of the test period for the nuclear business, as this is the latest rate published by the OEB. The OEB's cost of capital parameters, including prescribed ROE, are updated on an annual basis. For the

-

<sup>&</sup>lt;sup>28</sup> In previous applications, OPG's payment amounts have been based on forecast production of two years or less.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 32 of 34

- 1 period January 1, 2018 to December 31, 2021, entries into this account would record the
- 2 annual nuclear revenue requirement impact of the difference between the OEB's annually
- 3 updated prescribed ROE and the annual ROE incorporated into the 2018 to 2021 annual
- 4 revenue requirements approved by the OEB. .

5

- 6 To facilitate calculating the annual nuclear revenue requirement impact of the difference,
- 7 OPG proposes to multiply the difference in ROE in each of 2018 to 2021 by the forecast
- 8 nuclear rate base financed by capital structure for each year in 2018 to 2021 that is approved
- 9 by the OEB in this Application.

10

- 11 OPG's ROE proposal is described at Ex. C1-1-1. This account is necessary to reduce the
- 12 significant risk associated with relying on long-term forecasts of ROE, which protects both
- 13 customers and OPG symmetrically. This type of account has been approved by the OEB in
- previous proceedings (e.g. in Hydro One's EB-2013-0416/EB-2014-0247 application).

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16 This account is proposed to take effect on January 1, 2018.

17 18

#### 6.4 Hydroelectric Capital Structure Variance Account

- 19 OPG proposes establishing the Hydroelectric Capital Structure Variance Account to record
- the hydroelectric revenue requirement impact of the difference between the capital structure
- 21 approved by the OEB in this proceeding and the capital structure approved by the OEB in
- 22 EB-2013-0321 that is underpinning the hydroelectric payment amounts in this proceeding for
- 23 2017 to 2021.

- 25 OPG's Application for hydroelectric to apply the price-cap formula (described in Ex. A1-3-2)
- 26 to 2014-2015 hydroelectric payment amounts implicitly incorporates the capital structure of
- 27 45 per cent equity and 55 per cent debt that was approved by the OEB in EB-2013-0321 that
- 28 would underpin the proposed hydroelectric payment amounts in the test period. However, in
- 29 this Application OPG is proposing a capital structure of 49 per cent equity and 51 per cent
- debt, as described in Ex. C1-1-1. As of the effective date of the payment amounts order in
- 31 this proceeding, entries into this account would record the annual hydroelectric revenue

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 33 of 34

- 1 requirement impact of the difference between the 45 per cent equity/55 per cent debt capital
- 2 structure approved by the OEB in EB-2013-0321 and the capital structure approved in this
- 3 proceeding.

4

- 5 To facilitate calculating the annual hydroelectric revenue requirement impact of the
- 6 difference, OPG proposes to multiply the difference in capital structure each year by the
- 7 average 2014-2015 regulated hydroelectric rate base forecast approved by the OEB in EB-
- 8 2013-0321.

9

- 10 OPG's capital structure proposal is described at Ex. C1-1-1. This account is necessary to
- 11 apply OPG's regulated operations-wide capital structure to the nuclear and regulated
- 12 hydroelectric businesses consistently during the test period.

13

- 14 This account is proposed to take effect on the effective date of the payment amounts
- 15 established pursuant to this Application.

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#### 7.0 INTEREST

- 18 OPG proposes to record interest on all deferral and variance accounts unless specified
- 19 otherwise in the account descriptions above. For these accounts, OPG proposes to apply
- 20 interest to the monthly opening balances of these accounts at the interest rate set by the
- 21 OEB from time to time pursuant to its interest policy for deferral and variance accounts,
- 22 unless specified otherwise in the account descriptions above.

- 24 The 2015 year-end balances were calculated using the current prescribed rate of 1.10 per
- cent per annum, where applicable.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Page 34 of 34

1		ATTACHMENTS
2		
3	Attachment 1:	Independent Auditors' Report prepared by Ernst & Young LLP
4		Chartered Professional Accountants
5		
6	Attachment 2:	Schedule of Regulatory Balances as at December 31, 2015
7		
8	Attachment 3:	Regulated Stations with Modeled Production Forecasts

#### INDEPENDENT AUDITORS' REPORT

To the management of **Ontario Power Generation Inc.** 

We have audited the accompanying schedule of regulatory balances of **Ontario Power Generation Inc.** as at December 31, 2015 (the "Schedule"). The Schedule has been prepared by management to present the balances of the variance and deferral accounts of Ontario Power Generation Inc. authorized for Ontario Power Generation Inc. by the decisions and orders of the Ontario Energy Board, in accordance with the basis of accounting as described in Note 1 to the Schedule.

#### Management's responsibility for the schedule of regulatory balances

Management is responsible for the preparation of this Schedule in accordance with the basis of accounting as described in Note 1 to the Schedule and for such internal control as management determines is necessary to enable the preparation of the Schedule that is free from material misstatement, whether due to fraud or error.

#### Auditors' responsibility

Our responsibility is to express an opinion on the Schedule based on our audit. We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the Schedule is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Schedule. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the Schedule, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the entity's preparation of the Schedule in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the Schedule.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### Opinion

In our opinion, the Schedule presents, in all material respects, the balances of the variance and deferral accounts of Ontario Power Generation Inc. as at December 31, 2015 authorized for Ontario Power Generation Inc. by the decisions and orders of the Ontario Energy Board in accordance with the basis of accounting as described in Note 1 to the Schedule

#### Basis of accounting and restriction on distribution

Without modifying our opinion, we draw attention to Note 1 to the Schedule, which describes the basis of accounting. The Schedule is prepared solely for the use of Ontario Power Generation Inc. and for filing with the Ontario Energy Board as part of the regulatory process. As a result, the Schedule may not be suitable for another purpose.

Our auditors' report is intended solely for **Ontario Power Generation Inc**. and for filing with the Ontario Energy Board as part of the regulatory process and should not be used for any other purpose.

[Original Signed by]

Toronto, Canada April 7, 2016 ERNST & YOUNG LLP Chartered Professional Accountants Licensed Public Accountants

#### SCHEDULE OF REGULATORY BALANCES AS AT DECEMBER 31, 2015

The Ontario Energy Board Act, 1998 and Ontario Regulation 53/05 provide that Ontario Power Generation Inc. ("OPG" or the "Company") receives regulated prices for electricity generated from most of the Company's hydroelectric generating facilities and all of the nuclear generating facilities that the Company operates. OPG's regulated prices for the generation from these facilities are determined by the Ontario Energy Board ("OEB").

The OEB's decisions and orders have authorized OPG to establish certain variance and deferral accounts, including those authorized pursuant to *Ontario Regulation 53/05*. The balances in these accounts are calculated in accordance with the OEB's decisions and orders and *Ontario Regulation 53/05*. In accordance with United Stated generally accepted accounting principles ("US GAAP"), OPG's consolidated financial statements recognize regulatory assets and liabilities for balances in the variance and deferral accounts.

In its November 2014 decision on OPG's application for new regulated prices under case number EB-2013-0321, the OEB approved the December 31, 2013 balances in the following variance and deferral accounts: the Hydroelectric Incentive Mechanism Variance Account, the Hydroelectric Surplus Baseload Generation Variance Account, the nuclear capital and hydroelectric portions of the Capacity Refurbishment Variance Account, and the Nuclear Development Variance Account. To effect recovery of the approved balances, the OEB established rate riders for OPG's regulated generation for the period from January 1, 2015 to December 31, 2015.

In its June 2015 and September 2015 decisions on OPG's application for clearance of variance and deferral account balances under case number EB-2014-0370, the OEB approved most of the Company's December 31, 2014 variance and deferral account balances. To effect recovery of the approved balances, the OEB established rate riders for OPG's regulated generation for the period from July 1, 2015 to December 31, 2016, which are in addition to the rate riders established under case number EB-2013-0321.

During 2015, OPG recorded additions to the variance and deferral accounts as authorized by the OEB and amortized the balances in the accounts authorized by the OEB in the EB-2013-0321 Payment Amounts Order and the EB-2014-0370 Payment Amounts Order. Where authorized by the OEB, OPG recorded interest on the unamortized balances in the applicable variance and deferral accounts at the OEB-prescribed rate of 1.47 percent per annum during the period from January 1, 2015 to March 31, 2015 and 1.10 percent per annum during the period from April 1, 2015 to December 31, 2015.

As at December 31, 2015, the balances to be recovered from (refunded to) ratepayers in the variance and deferral accounts authorized for OPG were as follows:

(millions of dollars)	2015
Regulated Hydroelectric	
Hydroelectric Surplus Baseload Generation Variance Account	114
Capacity Refurbishment Variance Account – Hydroelectric	83
Pension & OPEB Cash Versus Accrual Differential Deferral Account – Hydroelectric	44
Pension and OPEB Cost Variance Account – Hydroelectric – Post 2012 Additions	33
Pension and OPEB Cost Variance Account – Hydroelectric – Future Recovery – EB-2012-0002 Approved	10
Pension & OPEB Cash Payment Variance Account – Hydroelectric	4
Ancillary Services Net Revenue Variance Account – Hydroelectric	(24
Hydroelectric Water Conditions Variance Account	(23
Hydroelectric Deferral and Variance Over/Under Recovery Variance Account	17
Hydroelectric Incentive Mechanism Variance Account	(2)
Income and Other Taxes Variance Account – Hydroelectric <sup>1</sup>	`-
Gross Revenue Charge Variance Account	_
Total – Regulated Hydroelectric	256
Nuclear Pension and OPEB Cost Variance Account – Nuclear – Future Recovery – EB-2012-0002 Approved Pension and OPEB Cost Variance Account – Nuclear – Post 2012 Additions Pension & OPEB Cash Versus Accrual Differential Deferral Account – Nuclear Pension & OPEB Cash Payment Variance Account – Nuclear Nuclear Liability Deferral Account Bruce Lease Net Revenues Variance Account – Derivative Sub-Account Bruce Lease Net Revenues Variance Account – Non-Derivative Sub-Account – EB-2012-0002 Approved Bruce Lease Net Revenues Variance Account – Non-Derivative Sub-Account – Post 2012 Additions Nuclear Deferral and Variance Over/Under Recovery Variance Account Capacity Refurbishment Variance Account – Nuclear – Non-Capital Portion Capacity Refurbishment Variance Account – Nuclear – Capital Portion Income and Other Taxes Variance Account – Nuclear Pickering Life Extension Depreciation Variance Account Nuclear Development Variance Account	193 622 271 24 190 (4 19 103 82 (31 (33 (13 5
Ancillary Services Net Revenue Variance Account – Nuclear	2
Total – Nuclear	1,433

<sup>&</sup>lt;sup>1</sup>The account balance is less than \$0.5 million, which rounds to nil million.

This schedule of regulatory balances has been prepared solely for the use of OPG's management and for filing with the OEB, and is considered by OPG's management to be a fair and reasonable representation of the balances in the authorized variance and deferral accounts as at December 31, 2015. These balances have been determined in accordance with the basis of accounting described in Note 1 to this schedule.

On behalf of Ontario Power Generation Inc.

[Original signed by]

Ken Hartwick SVP Finance, Strategy, Risk & Chief Financial Officer April 7, 2016

See accompanying note to the schedule

# NOTE TO THE SCHEDULE OF REGULATORY BALANCES AS AT DECEMBER 31, 2015

#### 1. Basis of Accounting

The schedule of the regulatory balances presents the balances as at December 31, 2015 in all variance and deferral accounts authorized for OPG. These balances represent the regulatory assets and liabilities for these accounts recorded by OPG in accordance with US GAAP for the purposes of its consolidated financial statements, as modified to include a return on equity amount as part of cost of capital additions recorded in the accounts for recovery from, or refund to, ratepayers and to reflect the approved variance and deferral amortization amounts applicable to the year ended December 31, 2015 that are set out in the OEB's EB-2013-0321 Payment Amounts Order of December 18, 2014 and the EB-2014-0370 Payment Amounts Order of October 8, 2015. All dollar amounts are presented in Canadian dollars.

For the purposes of its consolidated financial statements prepared in accordance with US GAAP, as required by FASB Accounting Standards Codification Topic 980, *Regulated Operations*, OPG limits the portion of cost of capital additions recognized as a regulatory asset to the amount calculated using the average rate of capitalized interest applied by OPG to construction and development in progress balances. The amortization expense related to the regulatory assets for variance and deferral accounts that include cost of capital additions are correspondingly limited in OPG's consolidated financial statements to amounts calculated using the average rate of capitalized interest applied to OPG's construction and development in progress balances.

In accordance with US GAAP, OPG's consolidated financial statements recognize amortization of regulatory assets and liabilities for variance and deferral accounts on a straight-line basis based on recovery or repayment periods approved by the OEB, with the objective of matching the amortization expense with OPG's revenue from recovery or repayment of these balances through rate riders authorized by the OEB. In a given reporting period, this can result in self-correcting, inter-period differences between the amortization expense recorded in accordance with US GAAP and the amortization amounts set out in the OEB's payment amounts order(s) applicable to that period. These timing differences reverse across reporting periods such that the total amortization expense recognized in OPG's consolidated financial statements during the period covered by the OEB's payment amounts order(s) corresponds to the total amortization approved in that payment amounts order(s).

US GAAP recognizes that rate regulation can create economic benefits and obligations that are required to be obtained from, or settled with, the ratepayers. When OPG assesses that there is sufficient assurance that incurred costs in respect of its regulated facilities will be recovered in the future, those costs are deferred and reported as a regulatory asset in the Company's consolidated financial statements. When OPG is required to refund amounts in respect of its regulated facilities to ratepayers in the future, including amounts related to costs that have not been incurred and for which the OEB has provided recovery through regulated prices, the Company records a regulatory liability in its consolidated financial statements. The measurement of regulatory assets and liabilities is subject to certain estimates and assumptions, including assumptions made in the interpretation of *Ontario Regulation 53/05* and the OEB's decisions. The estimates and assumptions made in the interpretation of the regulation and the OEB's decisions are reviewed as part of the OEB's regulatory process.

OPG's most recent annual consolidated financial statements filed with the Ontario Securities Commission are as at and for the year ended December 31, 2015.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Attachment 3 Page 1 of 2

# **REGULATED STATIONS WITH MODELED PRODUCTION FORECASTS**

Station
Sir Adam Beck 1
Sir Adam Beck 2
Sir Adam Beck PGS
DeCew Falls 1
DeCew Falls 2
R.H. Saunders
Mountain Chute
Barrett Chute
Calabogie
Stewartville
Arnprior
Otto Holden
Des Joachims
Chenaux
Chats Falls
Abitibi Canyon
Otter Rapids
Lower Notch
Pine Portage
Cameron Falls
Alexander
Aguasabon
Silver Falls
Kakabeka Falls
Manitou Falls
Caribou Falls
Whitedog Falls

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Attachment 3 Page 2 of 2

River System	Station
Montreal	Indian Chute
Matabitchuan	Matabitchuan
Mississippi	High Falls
Rideau	Merrickville
Otonabee	Lakefield
	Auburn
Trent	Seymour
	Ranney Falls
	Hagues Reach
	Meyersburg
	Sills Island
	Frankford
	Sidney
Beaver	Eugenia Falls
Muskoka	Trethewey
	Hanna Chute
	South Falls
	Ragged Rapids
	Big Eddy
Severn	Big Chute
South	Elliot Chute
	Bingham Chute
	Nipissing
Sturgeon	Crystal Falls
Wanapitei	Stinson
	Conistion
	McVittie

# Table 1 Deferral and Variance Accounts Closing Account Balances - 2014 to 2015 (\$M)

		Audited Year End	Audited Year End
Line		Balance	Balance
No.	Account	2014 <sup>1</sup>	2015 <sup>3</sup>
		(a)	(b)
		(~)	(~)
	Regulated Hydroelectric:		
1	Hydroelectric Water Conditions Variance	(8.5)	(23.0)
	Ancillary Services Net Revenue Variance - Hydroelectric	(16.5)	(24.2)
3	Hydroelectric Incentive Mechanism Variance	(7.5)	(1.7)
4	Hydroelectric Surplus Baseload Generation Variance	67.1	114.4
5	Income and Other Taxes Variance - Hydroelectric	(0.2)	(0.1)
6	Capacity Refurbishment Variance - Hydroelectric	232.6	83.2
7	Pension and OPEB Cost Variance - Hydroelectric - Future	10.5	9.5
8	Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions	35.5	32.5
9	Pension & OPEB Cash Versus Accrual Differential Deferral - Hydroelectric <sup>2</sup>	4.6	44.2
	Pension & OPEB Cash Payment Variance - Hydroelectric <sup>2</sup>	0.2	4.3
	Hydroelectric Deferral and Variance Over/Under Recovery Variance	4.5	16.5
12	Total	322.4	255.5
	Nuclear:		
13	Nuclear Liability Deferral	285.7	190.5
14	Nuclear Development Variance	58.8	3.3
15	Ancillary Services Net Revenue Variance - Nuclear	1.7	2.1
16	Capacity Refurbishment Variance - Nuclear - Capital Portion	13.2	(32.5)
17	Capacity Refurbishment Variance - Nuclear - Non-Capital Portion	1.3	(30.8)
18	Bruce Lease Net Revenues Variance - Derivative Sub-Account	153.8	(4.5)
19	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - EB-2012-0002	37.3	18.7
20	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - Post 2012 Additions	123.8	103.1
21	Income and Other Taxes Variance - Nuclear	(13.2)	(13.1)
	Pension and OPEB Cost Variance - Nuclear - Future	214.7	193.2
23	Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions	678.6	622.0
24	Pension & OPEB Cash Versus Accrual Differential Deferral - Nuclear <sup>2</sup>	31.3	271.1
25	Pension & OPEB Cash Payment Variance - Nuclear <sup>2</sup>	6.2	23.4
	Pickering Life Extension Depreciation Variance	7.8	5.2
27	Nuclear Deferral and Variance Over/Under Recovery Variance	56.4	81.7
28	Total	1,657.5	1,433.4
29	Grand Total (line 12 + line 28)	1,979.9	1,688.9

- 1 From EB-2014-0370, Payment Amounts Order, App. A, Table 1, col. (a) and Table 2, col. (a), unless otherwise noted.
- 2 2014 balance from EB-2014-0370, Ex. H1-1-2, Table 1, col. (d).
- 3 From Ex. H1-1-1, Table 1a, col. (f).

# Table 1a Deferral and Variance Accounts Continuity of Account Balances - Actual 2014 to 2015 (\$M)

Line		Audited Year End Balance		Actual	2015		(a)+(b)+(c)+(d)+(e) Audited Year End Balance
No.	Account	2014 <sup>1</sup>	Transactions	Amortization <sup>3</sup>	Interest <sup>4</sup>	Transfers	2015
		(a)	(b)	(c)	(d)	(e)	(f)
	Hydroelectric:						
1	Hydroelectric Water Conditions Variance	(8.5)	(17.1)	2.8	(0.2)	0.0	(23.0)
	Ancillary Services Net Revenue Variance - Hydroelectric	(16.5)	(12.9)	5.5	(0.3)	0.0	(24.2)
	Hydroelectric Incentive Mechanism Variance	(7.5)	0.0	5.8	(0.1)	0.0	(1.7)
4	Hydroelectric Surplus Baseload Generation Variance	67.1	81.5	(35.2)	1.0	0.0	114.4
5	Income and Other Taxes Variance - Hydroelectric	(0.2)	(0.0)	0.1	(0.0)	0.0	(0.1)
6	Capacity Refurbishment Variance - Hydroelectric	232.6	1.2	(152.7)	2.1	0.0	83.2
7	Pension and OPEB Cost Variance - Hydroelectric - Future	10.5	0.0	(1.1)	0.0	0.0	9.5
8	Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions	35.5	0.0	(3.0)	0.0	0.0	32.5
9	Pension & OPEB Cash Versus Accrual Differential Deferral - Hydroelectric <sup>2</sup>	4.6	39.5	0.0	0.0	0.0	44.2
10	Pension & OPEB Cash Payment Variance - Hydroelectric <sup>2</sup>	0.2	4.1	0.0	0.0	0.0	4.3
11	Hydroelectric Deferral and Variance Over/Under Recovery Variance	4.5	13.3	(1.5)	0.1	0.0	16.5
12	Total	322.4	109.7	(179.2)	2.6	0.0	255.5
	Nuclear:						
13	Nuclear Liability Deferral	285.7	0.0	(95.2)	0.0	0.0	190.5
14	Nuclear Development Variance	58.8	1.3	(57.3)	0.4	0.0	3.3
15	Ancillary Services Net Revenue Variance - Nuclear	1.7	0.9	(0.6)	0.0	0.0	2.1
	Capacity Refurbishment Variance - Nuclear - Capital Portion	13.2	(37.5)	(8.2)	(0.1)	0.0	(32.5)
	Capacity Refurbishment Variance - Nuclear - Non-Capital Portion	1.3	(31.5)	(0.4)	(0.1)	0.0	(30.8)
	Bruce Lease Net Revenues Variance - Derivative Sub-Account	153.8	(168.7)	10.4	0.0	0.0	(4.5)
_	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - EB-2012-0002	37.3	0.0	(18.7)	0.0	0.0	18.7
20	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - Post 2012 Additions	123.8	20.6	(41.3)	0.0	0.0	103.1
21	Income and Other Taxes Variance - Nuclear	(13.2)	(4.2)	4.4	(0.1)	0.0	(13.1)
	Pension and OPEB Cost Variance - Nuclear - Future	214.7	0.0	(21.5)	0.0	0.0	193.2
	Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions	678.6	0.0	(56.5)	0.0	0.0	622.0
	Pension & OPEB Cash Versus Accrual Differential Deferral - Nuclear <sup>2</sup>	31.3	239.8	0.0	0.0	0.0	271.1
25	Pension & OPEB Cash Payment Variance - Nuclear <sup>2</sup>	6.2	17.0	0.0	0.2	0.0	23.4
26	Pickering Life Extension Depreciation Variance	7.8	0.0	(2.6)	0.0	0.0	5.2
27	Nuclear Deferral and Variance Over/Under Recovery Variance	56.4	43.5	(18.8)	0.6	0.0	81.7
28	Total	1,657.5	81.4	(306.3)	0.9	0.0	1,433.4
		,,,,,		()			,
29	Grand Total (line 12 + line 28)	1,979.9	191.0	(485.5)	3.5	0.0	1,688.9

- 1 From EB-2014-0370, Payment Amounts Order, App. A, Table 1, col. (a) and Table 2, col. (a), unless otherwise noted.
  2 2014 balance from EB-2014-0370, Ex. H1-1-2, Table 1, col. (d).
  3 Calculated as the value from EB-2014-0370 Payment Amounts Order, App. A, Tables 1 and 2, cols. (b) and (e).
  4 Per the EB-2014-0370 Payment Amounts Order, no interest is recorded on the Pension & OPEB Cash Versus Accrual Differential Deferral Account, Pension and OPEB Cost Variance Account, Bruce Lease Net Revenues Variance (from January 1, 2015 to December 31, 2016), Nuclear Liability Deferral Account, and Pickering Life Extension Depreciation Variance Account.

Table 2
Hydroelectric Water Conditions Variance Account
Summary of Account Transactions - 2015

Line		Actual
No.	Particulars	2015
		(a)
	Previously Regulated Hydroelectric:	
1	Forecast Production - EB-2013-0321 <sup>1</sup> (GWh)	21,028.2
2	Actual Calculated Production (GWh)	21,641.4
3	Difference (GWh) (line 1 - line 2)	(613.2)
4	Payment Amount per EB-2013-0321 (\$/MWh) <sup>2</sup>	40.20
5	Revenue Impact (\$M) (line 3 x line 4 / 1000)	(24.7)
6	GRC/Water Rental Costs (\$M)	8.1
7	Addition to Variance Account (\$M) (line 5 + line 6)	(16.5)
	Newly Regulated Hydroelectric:	
8	Forecast Production - EB-2013-0321 <sup>1,3</sup> (GWh)	11,894.8
9	Actual Calculated Production <sup>3</sup> (GWh)	11,906.3
10	Difference (GWh) (line 8 - line 9)	(11.5)
11	Payment Amount per EB-2013-0321 (\$/MWh) <sup>2</sup>	41.93
12	Revenue Impact (\$M) (line 10 x line 11 / 1000)	(0.5)
13	GRC/Water Rental Costs (\$M)	(0.1)
14	Addition to Variance Account (\$M) (line 12 + line 13)	(0.5)
15	Total Addition to Variance Account (\$M) (line 7 + line 14)	(17.1)

- 1 Value determined as set out in EB-2014-0370 Payments Amounts Order, App. B, pp. 4-5. Previously Regulatead value is from EB-2013-0321 Payment Amounts Order, App. A, Table 4, line 1, col. (b).
- 2 From EB-2014-0370 Payments Amounts Order, App. B, pp. 4-5 and EB-2013-0321 Payment Amounts Order, App. B, Table 1, line 3, col. (a) for Previously Regulated and App. C, Table 1, line 3, col. (c) for Newly Regulated.
- 3 In accordance with EB-2014-0370 Payment Amounts Order, App. B, pp. 4-5 and EB-2013-0321 Payment Amounts Order, App. G, pp. 2-3, the value represents production for the 21 Newly Regulated hydroelectric facilities subject to the variance account.

# Table 3 Ancillary Services Net Revenue Variance Account Summary of Account Transactions - 2015 (\$M)

Line		Actual
No.	Particulars	2015
140.	i di dedidis	(a)
	Previously Regulated Hydroelectric:	(α)
	Forecast Revenue - EB-2013-0321 <sup>1</sup>	32.5
	Actual Revenue	43.3
3	Addition to Variance Account (line 1 - line 2)	(10.8)
	Newly Regulated Hydroelectric:	
4	Forecast Revenue - EB-2013-0321 <sup>2</sup>	22.9
5	Actual Revenue	29.8
6	Addition to Variance Account Before Adjustment (line 4 - line 5)	(6.8)
7	Less: EB-2013-0321 Impact Statement (Ex. N1) Adjustment <sup>3</sup>	(4.7)
8	Addition to Variance Account (line 6 - line 7)	(2.1)
9	Hydroelectric Addition to Variance Account (line 3 + line 8)	(12.9)
	Nuclear:	
10	Forecast Revenue - EB-2013-0321 <sup>4</sup>	1.9
11	Actual Revenue <sup>5</sup>	1.5
12	Addition to Variance Account Before Adjustment (line 10 - line 11)	0.4
13	Less: EB-2013-0321 Impact Statement (Ex. N1) Adjustment <sup>3</sup>	(0.6)
14	Nuclear Addition to Variance Account (line 12 - line 13)	0.9

- 1 Calculated as \$2.71M/month x 12 months per EB-2013-0321 Payment Amounts Order, App. G, page 4 and as shown in EB-2014-0370 Payment Amounts Order, App. B, Page 6.
- 2 Calculated as \$1.91M/month x 12 months per EB-2013-0321 Payment Amounts Order, App. G, page 4 and as shown in EB-2014-0370 Payment Amounts Order, App. B, Page 6.
- The adjustments are per the EB-2013-0321 Payment Amounts Order (App. G, page 4) requirement that amounts recorded in the account do not include those that OPG indicated it is not seeking to recover from, or refund to, ratepayers as part of the differences between the revenue requirement in its EB-2013-0321 pre-filed evidence and the information based on OPG's 2014-2016 Business Plan, which was provided in the EB-2013-0321 Impact Statement at Ex. N1. The total of the adjustments represent a 12-month portion of the \$8M test period increase (EB-2013-0321 Ex. N1-1-1, Chart 1) in forecast newly regulated hydroelectric and nuclear ancillary services net revenues between OPG's EB-2013-0321 pre-filed evidence and its 2014-2016 Business Plan. This difference was not included in the updated revenue requirement in the Ex. N1 impact statement. The monthly adjustment amount for newly regulated hydroelectric and nuclear is calculated below. No adjustment is necessary for the previously regulated hydroelectric ancillary services net revenue since, as discussed in section 2.4 of EB-2013-0321 Ex. N1-1-1, the revenue requirement was updated for the 2014-2016 Business Plan values.

to Note 3 - Monthly EB-2013-0321 (Ex. N1) Impact Statement Adjustments (\$M)			
Particulars	2014#	2015	Total
	(a)	(b)	(c)
Newly Regulated Hydroelectric:			
Forecast Revenue - EB-2013-0321 OPG's Pre-filed Evidence##	11.3	23.1	34.4
Forecast Revenue - OPG's 2014-2016 Business Plan	13.6	27.8	41.4
Difference (line 1a - line 2a)	(2.3)	(4.7)	(7.0)
Monthly EB-2013-0321 Impact Statement (Ex. N1) Adjustment (line 3a / 18 months)			(0.4)
Nuclear:			
Forecast Revenue - EB-2013-0321 Pre-filed Evidence <sup>+</sup>	1.9	1.9	3.8
Forecast Revenue - 2014-2016 Business Plan	2.4	2.5	4.9
Difference (line 5a - line 6a)	(0.5)	(0.6)	(1.1)
Monthly EB-2013-0321 Impact Statement (Ex. N1) Adjustment (line 7a / 24 months)			(0.0)
	Particulars  Newly Regulated Hydroelectric: Forecast Revenue - EB-2013-0321 OPG's Pre-filed Evidence*** Forecast Revenue - OPG's 2014-2016 Business Plan Difference (line 1a - line 2a)  Monthly EB-2013-0321 Impact Statement (Ex. N1) Adjustment (line 3a / 18 months)  Nuclear: Forecast Revenue - EB-2013-0321 Pre-filed Evidence* Forecast Revenue - 2014-2016 Business Plan Difference (line 5a - line 6a)	Particulars 2014#  (a)  Newly Regulated Hydroelectric:  Forecast Revenue - EB-2013-0321 OPG's Pre-filed Evidence## 11.3  Forecast Revenue - OPG's 2014-2016 Business Plan 13.6  Difference (line 1a - line 2a) (2.3)  Monthly EB-2013-0321 Impact Statement (Ex. N1) Adjustment (line 3a / 18 months)  Nuclear:  Forecast Revenue - EB-2013-0321 Pre-filed Evidence* 1.9  Forecast Revenue - 2014-2016 Business Plan 2.4  Difference (line 5a - line 6a) (0.5)	Particulars 2014 2015  (a) (b)  Newly Regulated Hydroelectric:  Forecast Revenue - EB-2013-0321 OPG's Pre-filed Evidence** 11.3 23.1  Forecast Revenue - OPG's 2014-2016 Business Plan 13.6 27.8  Difference (line 1a - line 2a) (2.3) (4.7)  Monthly EB-2013-0321 Impact Statement (Ex. N1) Adjustment (line 3a / 18 months)  Nuclear:  Forecast Revenue - EB-2013-0321 Pre-filed Evidence* 1.9 1.9  Forecast Revenue - 2014-2016 Business Plan 2.4 2.5  Difference (line 5a - line 6a) (0.5) (0.6)

- Wewly regulated hydroelectric values are for the 6-month period from July 1, 2014 to December 31, 2014.
- ## From EB-2013-0321 Ex. G1-1-1 Table 1, line 6: 2014 value is col. (e) multiplied by 6/12, and 2015 value is from col. (f).
- + From EB-2013-0321 Ex. L 9.1-17 SEC 132, Attch 1, Table 3, line 2 col. (b)
- 4 Calculated as \$0.14M/month x 12 months per EB-2013-0321 Payment Amounts Order, App. G, page 10 and as shown in EB-2014-0370 Payment Amounts Order, App. B, Page 11.
- 5 As shown in G2-1-1 Table 1, line 8, col (c).

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Table 4

Table 4
Hydroelectric Incentive Mechanism Variance Account
Summary of Account Transactions - 2015 (\$M)

Line No.	Particulars	Actual 2015
		(a)
1	Total Actual Regulated Hydroelectric Incentive Mechanism Net Revenue <sup>1</sup>	26.5
2	Threshold per EB-2014-0370 <sup>2</sup>	58.0
3	Actual Hydroelectric Incentive Mechanism Net Revenue In Excess of Threshold - line 2; nil if line 1 < line 2)  (line 1	0.0
	_ 2	500/
4	Percentage <sup>2</sup>	50%
5	Addition to Variance Account (line 3 x line 4)	0.0

- 1 As reported in OPG's 2015 Management's Discussion & Analysis (Ex. A2-1-1, Att. 3, p. 37)
- 2 2015 threshold and percentage from EB-2014-0370 Payment Amounts Order, App. B, pages 8-9.

Table 5
Hydroelectric Surplus Baseload Generation Variance Account
Summary of Account Transactions - 2015

Line No.	Particulars Particulars	Actual 2015
		(a)
	Previously Regulated Hydroelectric:	
1	Actual Foregone Production Due to SBG Conditions (GWh)	1,892
2	Payment Amount per EB-2013-0321 (\$/MWh) <sup>1</sup>	40.20
3	Revenue (\$M) (line 1 x line 2 / 1000)	76.1
4	GRC/Water Rental Costs (\$M)	(27.3)
5	Addition to Variance Account (\$M) (line 3 + line 4)	48.8
	Newly Regulated Hydroelectric:	
6	Actual Foregone Production Due to SBG Conditions (GWh)	948
7	Payment Amount per EB-2013-0321 (\$/MWh) <sup>2</sup>	41.93
8	Revenue (\$M) (line 6 x line 7 / 1000)	39.7
9	GRC/Water Rental Costs (\$M)	(7.0)
10	Addition to Variance Account (\$M) (line 8 + line 9)	32.7
11	Total Addition to Variance Account (\$M) (line 5 + line 10)	81.5

- 1 From EB-2013-0321 Payment Amounts Order, App. B, Table 1, line 3, col. (a), and EB-2014-0370 Payment Amounts Order, App B, page 9.
- 2 From EB-2013-0321 Payment Amounts Order, App. C, Table 1, line 3, col. (c), and EB-2014-0370 Payment Amounts Order, App B, page 9.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Table 6

Table 6
Income and Other Taxes Variance Account
Summary of Account Transactions - 2015 (\$M)

		Actual 2015		
		Previously		(a)+(b)
Line		Regulated		
No.	Particulars Particulars	Hydroelectric	Nuclear	Total
		(a)	(b)	(c)
	Increase of SR&ED ITCs Recognition Percentage from 75% to 100% in 2015 for 2011 1			
1	Actual SR&ED ITCs, net of Tax on ITCs, at 75%	(0.2)	(12.5)	(12.7)
2	Actual SR&ED ITCs, net of Tax on ITCs, at 100% (line 1 x 4/3)	(0.2)	(16.7)	(16.9)
3	Total Addition to Variance Account (line 2 - line 1)	(0.0)	(4.2)	(4.2)

### Notes:

1 Recorded in 2015 following the resolution, during 2015, of the 2011 taxation year audit. Amount at line 1 represents SR&ED ITCs, net of tax on ITCs, for 2011 previously credited to ratepayers at 75% through the EB-2010-0008 payment amounts and the December 31, 2012 balance of the Income and Other Taxes Variance Account.

# Table 7 Capacity Refurbishment Variance Account - Hydroelectric <u>Summary of Account Transactions - 2015 (\$M)</u>

Line		Actual
No.	Particulars	2015
		(a)
	Non-Capital Addition:	
1	Sir Adam Beck I GS Unit G10 Upgrade - Removal Costs Variance	0.6
2	Less: EB-2013-0321 Impact Statement (Ex. N1) Adjustment <sup>1</sup>	0.1
3	Total Non-Capital Addition to Variance Account - Hydroelectric (line 1 - line 2)	0.5
	Capital Additions:	
4	Sir Adam Beck I GS Unit G10 Upgrade	(0.4)
5	Otto Holden GS - Replace Headgates and Rehabilitate Gains	(0.3)
6	Des Joachims GS - Replace Main Output Transformers	0.5
7	Des Joachims GS - Turbine Runner Replacement	0.2
8	Otto Holden GS - Replace Sluicegates & Rehabilitate Sluicegates System	0.5
9	Capital Additions to Variance Account Before Adjustment (lines 4 through 8)	0.4
10	Less: EB-2013-0321 Impact Statement (Ex. N1) Adjustment <sup>1</sup>	(0.2)
11	Tota Capital Addition to Variance Account for Other Projects (line 9 - line 10)	0.7
12	Total Addition to Variance Account - Regulated Hydroelectric (line 3 + line 11)	1.2

### Notes:

The adjustment is per the EB-2013-0321 Payment Amounts Order, App. G, page 10 and the EB-2014-0370 Payment Amounts Order, App. B, page 12 requirements, which are the same in nature as those described in Ex. H1-1-1 Table 3, Note 3 and Ex. H1-1-1 Table 12, Note 6.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Table 8

Table 8
Pension & OPEB Cash Payment Variance Account and Pension & OPEB Cash Versus Accrual Differential Deferral Account

<u>Summary of Account Transactions - 2015 (\$M)</u>

			Actual 2015			
Line No.	Particulars	Note	Regulated Hydroelectric	Nuclear	(a)+(b) <b>Total</b>	
			(a)	(b)	(c)	
1	Forecast Pension Contributions - EB-2013-0321	1	45.1	280.6	325.8	
2	Forecast OPEB Payments - EB-2013-0321	1	12.8	79.9	92.7	
3	Total Forecast Pension and OPEB Cash Amounts (line 1 + line 2)		58.0	360.5	418.5	
4 5	Actual Pension Contributions Actual OPEB Payments	2 2	46.8 15.2	284.5 93.1	331.3 108.3	
6	Total Actual Pension and OPEB Cash Amounts (line 4 + line 5)	_	62.1	377.5	439.6	
7	Total Addition to Pension & OPEB Cash Payment Variance Account (line 6 - line 3)		4.1	17.0	21.1	
8	Actual Pension Accrual	3	68.3	414.4	482.7	
9	Actual OPEB Accrual	3	33.3	202.8	236.2	
10	Total Actual Pension and OPEB Accrual (line 8 + line 9)		101.6	617.3	718.9	
11	Total Addition to Pension & OPEB Cash Versus Accrual Differential Deferral Account (line 10 - line 6)		39.5	239.8	279.3	

- 1 From EB-2013-0321 Payment Amounts Order, App. G, page 13-14 and EB-2014-0370 Payment Amounts Order, App. B, page 15-16 (Regulated Hydroelectric amounts are the sum of Previously Regulated and Newly Regulated amounts).
- Total Regulated amounts in col. (c) as shown (rounded) in Note 10 to the 2015 audited financial statements for OPG's Prescribed Facilities (Ex. A2-1-1, Att. 5). Nuclear amounts also found at Ex. F4-3-2, Chart 1.
- 3 Nuclear amounts found at Ex. F4-3-2, Chart 2.

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Table 9

Table 9
Hydroelectric Deferral and Variance Over/Under Recovery Variance Account
Summary of Account Transactions - 2015

Line			Actual
No.	Particulars Particulars	Note	2015
			(a)
1	Previously Regulated Hydroelectric Rider 2015 (\$/MWh)-EB-2013-0321	1	6.04
2	Regulated Hydroelectric Rider 2015/2016-A (\$/MWh)-EB-2014-0370	2	3.19
3	Regulated Hydroelectric Interim Period Shortfall Rider 2015/2016-B (\$/MWh)-EB-2014-0370	3	0.64
4	Jan 2015 - Dec 2015 Previously Regulated Hydroelectric Production Forecast Used to Set Rider 2015 (TWh)	4	21.0
5	Jan 2015 - Dec 2015 Previously Regulated Hydroelectric Actual Production (TWh)	5	19.4
6	Actual Production Variance for Previously Regulated Hydroelectric Rider 2015 (TWh) (line 4 - line 5)		1.7
7	Oct 2015 - Dec 2015 Hydroelectric Production Forecast Used to Set Rider 2015/2016-A and B (TWh)	6	8.1
8	Oct 2015 - Dec 2015 Actual Hydroelectric Production (TWh)	7	7.3
9	Actual Production Variance for Rider 2015/2016-A and B (TWh) (line 7 - line 8)		0.9
10	Addition to Variance Account (\$M) Rider 2015 (line 6 x line 1)		10.0
11	Addition to Variance Account (\$M) Rider 2015/2016-A (line 9 x line 2)		2.8
12	Addition to Variance Account (\$M) Interim Period Shortfall Rider 2015/2016-B (line 9 x line 3)		0.6
13	Total Additions to Variance Account (\$M) (line 10 + line 11 + line 12)		13.3

- 1 From EB-2013-0321 Payment Amounts Order, App. B, Table 1, line 4, col. (a) and EB-2014-0370 Payment Amounts Order, page 3.
- 2 From EB-2014-0370 Payment Amounts Order, App. A, Table 1, line 12, col. (g).
- 3 Interim period shortfall rider effective October 1, 2015, from EB-2014-0370 Payment Amounts Order, App. A, Table 3, line 4, col. (a).
- 4 EB-2013-0321 Payment Amounts Order, App. A Table 4, line 1 Col. (b).
- 5 Reported in OPG's 2015 Management's Disussion & Analysis (Ex. A2-1-1, Att. 3, p. 14).
- 6 Calculated as the production forecast used to set the hydroelectric payment rider in EB-2014-0370 Payment Amounts Order, App. A Table 3, line 3, col. (a) x 3/18.
- 7 Previously Regulated and Newly Regulated hydroelectric production for Q4 2015 reported in OPG's 2015 Management's Discussion & Analysis (Ex. A2-1-1, Att. 3, p. 73)

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Table 10

Table 10

Nuclear Development Variance Account

Summary of Account Transactions - 2015 (\$M)

Line No.	Particulars	Note	Actual 2015
			(a)
1	Forecast Costs - EB-2013-0321	1	0.0
2	Actual Costs	2	1.3
3	Addition to Variance Account (line 2 - line 1)		1.3

- 1 The 2015 forecast is nil as per the EB-2013-0321 Payment Amounts Order, App. G, page 9 and EB-2014-0370 Payment Amounts Order, App. B, page 11 as no such costs were reflected in the EB-2013-0321 approved revenue requirement.
- 2 From Ex. F2-1-1, Table 1, Line 6, col. (c).

Schedule 1 Table 11

Table 11
Capacity Refurbishment Variance Account - Nuclear
<u>Summary of Account Transactions - 2015 (\$M)</u>

Line No.	Particulars	Note	Actual 2015
			(a)
	Non-Capital Addition to Variance Account:		
	Forecast Non-Capital Costs - EB-2013-0321:		
1	Darlington Refurbishment	1	12.4
2	Fuel Channel Life Cycle Management Project	1	3.7
3	Pickering Continued Operations	1	18.6
4	Fuel Channel Life Extension Project	1	0.0
5	Total (lines 1 through 4)		34.7
	Actual Nam Control Contro		
	Actual Non-Capital Costs:	2	1.6
6	Darlington Refurbishment	3	1.6
7	Fuel Channel Life Cycle Management Project	4	2.3
8	Pickering Continued Operations		2.2
_	Fuel Channel Life Extension Project  Total (lines 6 through 9)	5	10.0
10	Total (lines 6 through 9)		16.0
	Non Conital Addition to Variance Assessati		
11	Non-Capital Addition to Variance Account:  Darlington Refurbishment (line 6 - line 1)	+	(10.9
12	Fuel Channel Life Cycle Management Project (line 7 - line 2)		(1.4
13	Pickering Continued Operations (line 8 - line 3)		(16.3
14	Fuel Channel Life Extension Project (line 9 - line 4)		10.0
	Non-Capital Addition to Variance Account Before Adjustment (lines 11 through 14)		(18.6
10	Non-Capital Addition to Variance Account before Adjustment (illies 11 tillough 14)		(10.0
16	Less: EB-2013-0321 Impact Statement (Ex. N1) Adjustment	2	12.8
	Total Non-Capital Addition to Variance Account - Nuclear (line 15 - line 16)	_	(31.5)
17	Total Non-Capital Addition to Variance Account - Nuclear (line 15 - line 16)		(31.3)
	Capital Addition to Variance Account - Darlington Refurbishment:		
18	Forecast Cost of Capital Amount (from Note 6, line 3b, col. (c))	6	11.0
10	Forecast Cost of Capital Amount (norm Note o, line 50, col. (c))	0	11.0
19	Actual 2015 Net Plant Rate Base Amount	7	192.6
		8	6.85%
	Weighted Average Cost of Capital	0	
	Actual Cost of Capital Amount (line 19 x line 20)	_	13.2
22	Cost of Capital Variance (line 21 - line 18)		2.2
	Forecast Depreciation (from Note 6, line 5b, col. (c))	6	4.5
	Actual Depreciation	9	7.0
25	Depreciation Variance (line 24 - line 23)		2.5
	Income Tax Impact:		
26	Forecast Capital Cost Allowance Deduction	10	66.8
27	Actual Capital Cost Allowance Deduction & SR&ED Qualifying Capital Expenditures	10	182.0
28	Difference (line 26 - line 27)	-	
20	Difference (fille 20 - fille 21)		(115.2
29	Net Increase (Decrease) in Regulatory Taxable Income	11	(111.4
30	Income Tax Rate	12	25.00%
31	Income Tax Impact (line 29 x line 30 / (1 - line 30))	12	(37.1
J1	moone rax mipact (inic 23 x inic 30 / (1 - inic 30))		(37.1
32	Capital Addition to Variance Account Before Adjustment (line 22 + line 25 + line 31)		(32.4
33	Less: EB-2013-0321 Impact Statement (Ex. N1) Adjustment	13	5.1
		10	
34	Total Capital Addition to Variance Account - Nuclear (line 32 - line 33)		(37.5

Table 11a

# Table 11a Notes to Table 11 Capacity Refurbishment Variance Account - Nuclear - 2015 (\$M)

#### Notes:

1 In accordance with the EB-2013-0321 Payment Amounts Order (App. G, p.10), and EB-2014-0370 Payment Amounts Order (App B, p. 12) the forecasts for 2015 have been determined as shown below at line 4a, on the basis of amounts underpinning the EB-2013-0321 payment amounts:

Table	e to Note 1 - EB-2013-0321 and OPG's 2014-2016 Business Plan Forecast Costs (\$M)				
		Darlington	Fuel Channel	Pickering	Fuel Channel
Line		Refurbishment	Life Cycle Mgmt	Continued	Life Extension
No.		Non-Capital#	Project##	Operations <sup>+</sup>	Project**
		(a)	(b)	(c)	(d)
1a	2014 Full Year Forecast Costs - EB-2013-0321	6.6	6.8	37.1	0.0
2a	2015 Full Year Forecast Costs - EB-2013-0321	18.2	0.6	0.0	0.0
3a	Total Forecast Costs - EB-2013-0321	24.9	7.4	37.1	0.0
4a	2015 Average Annual Forecast from EB-2013-0321 ((line 3a / 24 months) x 12 months)	12.4	3.7	18.6	0.0
5a	2014 Full Year Forecast Costs - OPG's 2014-2016 Business Plan	6.6	8.8	39.1	
6a	2015 Full Year Forecast Costs - OPG's 2014-2016 Business Plan	20.4	0.5	0.0	
7a	Total Forecast from OPG's 2014-2016 Business Plan	27.0	9.2	39.1	
8a	2015 Average Annual Forecast - OPG's 2014-2016 Business Plan ((line 7a / 24 months) x 12 months)	13.5	4.6	19.5	
9a	2015 EB-2013-0321 Impact Statement (Ex. N1) Adjustment (cols. (a)-(c): line 8a - line 4a)	1.1	0.9	1.0	9.9

- # Lines 1a and 2a from EB-2013-0321 Decision with Reasons, p. 55.
- ## Lines 1a and 2a from EB-2013-0321 Ex. F2-3-1, Table 1, line 11, cols. (e) and (f).
- + Line 1a from EB-2013-0321 Ex. F2-2-3, p. 4, Chart 1, "Subtotal" line.
- ++ The Fuel Channel Life Extension Project was not reflected in OPG's 2013-2015 Business Plan underpinning the EB-2013-0321 payment amounts.
- 2 The adjustments are per the EB-2013-0321 Payment Amounts Order (App. G, p.10), and EB-2014-0370 Payment Amounts Order (App B, p. 12) requirement that amounts recorded in the account do not include those that OPG indicated it is not seeking to recover from, or refund to, ratepayers as part of the differences between the revenue requirement in its EB-2013-0321 pre-filed evidence and the information based on OPG's 2014-2016 Business Plan, which was provided in the EB-2013-0321 Impact Statement at Ex. N1. The adjustments are 12/24 of the higher corresponding costs reflected in the total test period OM&A increase of \$26M (EB-2013-0321 Ex. N1-1-1, Chart 1) between OPG's EB-2013-0321 pre-filed evidence and its 2014-2016 Business Plan. This difference was not included in the updated revenue requirement in the Ex. N1 Impact Statement. The individual 2015 adjustments total \$9.9M and are shown in Note 1, line 9a, cols. (a) to (d). The Fuel Channel Life Cycle Extension Project was considered in OPG's 2014-2016 Business Plan (see EB-2013-0321 Ex. F2-3-3, Attachment 1, Tab 11) as part of the nuclear portfolio project OM&A. In addition to addressing requirements with respect to the EB-2013-0321 Ex. N1 Impact Statement, the adjustment also limits the amount recoverable from ratepayers for project cost variances to the variance in total nuclear portfolio project OM&A from OPG's 2014-2016 Busines Plan.
- 3 As shown in Ex. F2-1-1 Table 1, Line 5, col. (c). These costs are discussed in Ex. F2-7-1.
- 4 As shown in Ex. F2-3-1 Table 1, Line 10, col. (c).
- 5 As shown in Ex. F2-3-1 Table 1, Line 11, col. (c).
- 6 The annual forecast (reference) amounts are determined as follows:

Table	Table to Note 6- Darlington Refurbishment Forecast Capital Amounts - EB-2013-0321 (\$M)							
Line No.		2014	2015	((a)+(b)) / 2 Reference Amount				
		(a)	(b)	(c)				
1b	Forecast Net Plant Rate Base Amount <sup>a</sup>	116.0	204.6					
2b	Weighted Average Cost of Capital <sup>b</sup>	6.86%	6.85%					
3b	Cost of Capital Forecast Amount (line 1b x line 2b)	8.0	14.0	11.0				
4b	ROE Component of Cost of Capital Amount <sup>c</sup>	4.9	8.6	6.7				
5b	Depreciation <sup>d</sup>	3.0	6.1	4.5				
6b	Capital Cost Allowance Deduction <sup>e</sup>	39.3	94.3	66.8				

- a Cols. (a) and (b) from EB-2013-0321 Ex. L-4.9-1 Staff-048, p. 2, Chart 1.
- b Cols. (a) and (b) from EB-2013-0321 Payment Amounts Order, App. A, col. (c), line 6 of Tables 5b and 6b, respectively.
- c Calculated as line 1b x equity portion (45%) of the EB-2013-0321 capital structure x EB-2013-0321 ROE rate of 9.36% (2014) and 9.30% (2015) (from EB-2013-0321 Payment Amounts Order, App. A, Tables 5b and 6b, col. (c), line 5).
- d From EB-2013-0321 Ex. F4-1-1, Table 2, Note 1 and EB-2013-0321 Ex. L-4.9-1 Staff-048, p. 2, Chart 1.
- e From EB-2013-0321 Ex. D2-2-1, p. 29, Note 2.
- 7 From Ex. B3-1-1 Table 1, col. (i), line 2.
- 8 From EB-2013-0321 Payment Amounts Order, App. A, Table 6b, col. (c), line 6.
- 9 From Ex. F4-1-1 Table 3, col. (c), line 2.
- 10 Col. (a) is from Note 6, col. (c), line 6b.
- 11 The decrease in regulatory taxable income in col. (a) is calculated as the sum of lines 25 and 28, plus the ROE component of the cost of capital variance at line 22. The ROE component of the variance is the difference between: (i) line 19 multiplied by the EB-2013-0321 OEB-approved equity portion (45%) of the capital structure, multiplied by the OEB-approved ROE rate of 9.30% and (ii) Note 6, line 4b, col. (c).
- 12 From EB-2013-0321 Payment Amounts Order, App. A, Table 8, line 31.
- 13 Amounts from EB-2014-0370 Ex. H1-1-2, Table 12, col. (b), line 33 x 6

Filed: 2016-05-27 EB-2016-0152 Exhibit H1 Tab 1 Schedule 1 Table 12

Table 12

Bruce Lease Net Revenues Variance Account

Summary of Account Transactions - 2015<sup>1</sup>

Line			Actual
No.	Particulars Particulars	Note	2015
			(a)
1	Actual Total Bruce Lease Net Revenues (\$M)	2	175.8
2	Forecast Bruce Lease Net Revenues - EB-2013-0321 (\$M)	3	40.2
3	Forecast Nuclear Production (TWh)	4	47.8
4	Rate Credited to Customers (\$/MWh) (line 2 / line 3)		0.8
5	Actual Nuclear Production (TWh)	5	44.5
6	Amount Credited to Customers (\$M) (line 4 x line 5)		37.6
7	Total Addition to Variance Account Before Adjustment (\$M) (line 6 - line 1)		(138.2)
8	Less: EB-2013-0321 Impact Statement (Ex. N1) Adjustment (\$M)	6	9.9
9	Total Addition to Variance Account (\$M) (line 7 - line 8)		(148.1)
10	Less: Addition to Derivative Sub-Account (\$M)	7	(168.7)
11	Addition to Non-Derivative Sub-Account (\$M) (line 9 - line 10)		20.6

- 1 Bruce Lease Net Revenues are discussed in Ex. G2-2-1.
- 2 From Ex. G2-2-1 Table 1, line 9, col (c).
- 3 Per EB-2013-0321 Payment Amounts Order, App. G, pages 11-12, and EB-2014-0370, App. B, pages 12 and 13" \$3.35/month X 12 months
- 4 Average of 2014 and 2015 annual nuclear production from EB-2013-0321 Payment Amounts Order, App. A, Table 4, line 1, cols. (g) and (h).
- 5 From Ex. E2-1-1 Table 1, line 3 col. (c).
- The adjustments in col. (a) is per the EB-2013-0321 Payment Amounts Order (App. G, page 11) requirement that OPG shall ensure that amounts recorded in the account do not include those that OPG indicated it is not seeking to recover from, or refund to, ratepayers as part of the differences between the revenue requirement in its EB-2013-0321 pre-filed evidence and the information based on OPG's 2014-2016 Business Plan provided in the EB-2013-0321 Impact Statement at Ex. N1. The adjustment represents 12/24 of the \$20M total test period decrease (EB-2013-0321 Ex. N1-1-1, Chart 1) in forecast Bruce Lease net revenues between OPG's EB-2013-0321 pre-filed evidence and the 2014-2016 Business Plan that was not included in the updated revenue requirement in that Impact Statement.
- 7 From Ex. G2-2-1, Table 3, line 10, col. (k) less Ex. G2-2-1, Table 6, line 15, col. (k), Income Tax Derivative Portion.

Table 13

Nuclear Deferral and Variance Over/Under Recovery Variance Account

Summary of Account Transactions - 2015

Line No.	Particulars	Note	Actual 2015
			(a)
1	Nuclear Rider 2015 (\$/MWh)-EB-2013-0321	1	1.33
2	Nuclear Rider 2015/2016-A (\$/MWh)-EB-2014-0370	2	10.84
3	Nuclear Interim Period Shortfall Rider 2015/2016-B (\$/MWh)-EB-2014-0370	3	2.17
4	Jan 2015 - Dec 2015 Nuclear Production Forecast Used to Set Nuclear Rider 2015 (TWh)	4	46.6
5	Jan 2015 - Dec 2015 Actual Nuclear Production (TWh)	5	44.5
6	Actual Production Variance for Nuclear Rider 2015 (TWh) (line 4 - line 5)		2.0
7	Oct 2015 - Dec 2015 Nuclear Production Forecast Used to Set Rider 2015 (TWh)	6	12.0
8	Oct 2015 - Dec 2015 Actual Nuclear Production (TWh)	7	8.8
9	Actual Production Variance for Rider 2015/2016-A and Interim Period Shortfall Rider 2015/2016-B (TWh) (line 7 - line 8)		3.1
10	Addition To Variance Account (\$M) Rider 2015 (line 6 x line 1)		2.7
11	Addition to Variance Account (\$M) Rider 2015/2016-A (line 9 x line 2)		34.0
12	Addition to Variance Account (\$M) Interim Period Shortfall Rider 2015/2016-B (line 9 x line 3)		6.8
13	Addition to Variance Account (\$M) (line 10 through line 12)		43.5

- 1 From EB-2013-0321 Payment Amounts Order, App. F, Table 1, line 18, col. (e)
- 2 From EB-2014-0370 Payment Amounts Order, App. A, Table 3, line 1, col. (b).
- 3 From EB-2014-0370 Payment Amounts Order, App. A, Table 3, line 4, col. (b).
- From EB-2013-0321 Payment Amounts Order, App. A, Table 4, line 1 col. (h).
- 5 As shown in Ex. E2-1-1 Table 1, line 3 col. (c).
- 6 Calculated as the production forecast used to set the nuclear payment rider in EB-2014-0370 Payment Amounts Order, App. A Table 3, line 3, col. (b) x 3/18.
- 7 As reported in OPG's 2015 Management's Discussion & Analysis (Ex. A2-1-1, Att. 3, p. 73).

# **CLEARANCE OF DEFERRAL AND VARIANCE ACCOUNTS**

# 1.0 PURPOSE

This evidence describes OPG's proposed approach for clearing the audited December 31, 2015 balances in OPG's deferral and variance accounts.

# 2.0 SUMMARY

OPG is requesting recovery of the audited December 31, 2015 balances in the deferral and variance accounts, less 2016 amortization amounts approved in EB-20-14-0370, except for the Pension and OPEB Cash Versus Accrual Differential Deferral Account, through a hydroelectric payment rider and a nuclear payment rider to come into effect on January 1, 2017 and expire on December 31, 2018. OPG proposes to calculate the hydroelectric payment amount rider using 2015 actual production for hydroelectric. OPG proposes to calculate the nuclear payment amount rider using the production forecast for nuclear approved in this Application. Any differences between the production amounts used to set the payment amount riders and actual production will continue to be addressed by entries into the Hydroelectric Deferral and Variance Over/Under Recovery Variance Account and Nuclear Deferral and Variance Over/Under Recovery Variance Account.

The methodology for the proposed recovery of the balances in the deferral and variance accounts is consistent with the methodology previously approved by the OEB and is described in section 3.0. The recovery of the regulated hydroelectric deferral and variance account balances is discussed in section 4.0. The recovery of the nuclear deferral and variance account balances is discussed in section 5.0.

# 3.0 METHODOLOGY

OPG proposes to calculate separate hydroelectric and nuclear payment riders for the period from January 1, 2017 to December 31, 2018 in the form of \$/MWh rates consistent with the OEB's decisions and payment amounts orders in EB-2014-0370, EB-2013-0321, EB-2012-0002 and EB-2010-0008.

- 1 The hydroelectric and nuclear payment riders are calculated separately using the following
- three steps. First, a recovery period is determined for each account to be cleared. Second,
- 3 based on each account's recovery period and the audited balance in the account less any
- 4 amortization already approved, the amount to be amortized over the period is determined.
- 5 Finally, the total amount to be amortized for all accounts to be cleared during the period is
- 6 divided by the proposed energy production amount approved by the OEB to determine the
- 7 payment rider.

8

# 4.0 RECOVERY OF REGULATED HYDROELECTRIC VARIANCE ACCOUNTS

- 10 The method of calculating the regulated hydroelectric payment rider is as shown in Ex. H1-2-
- 1, Table 1 using audited December 31, 2015 account balances. OPG proposes to recover
- balances in the hydroelectric deferral and variance accounts using an amortization period of
- two years (24 months beginning January 1, 2017). The proposed hydroelectric payment rider
- 14 is calculated using the 2015 actual hydroelectric output from the regulated hydroelectric
- 15 facilities (divided by 12 months multiplied by 24 months). The resulting rider in effect from
- 16 January 1, 2017 to December 31, 2018 would be \$1.44/MWh.

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# 5.0 RECOVERY OF NUCLEAR VARIANCE ACCOUNTS

- 19 The method of calculating of the nuclear rider is as shown in Ex. H1-2-1, Table 2 using
- 20 audited December 31, 2015 account balances. OPG proposes to recover balances in the
- 21 nuclear deferral and variance accounts using an amortization period of two years (24 months
- beginning January 1, 2017). The proposed nuclear payment rider is calculated using the
- 23 2017-2018 forecast nuclear output from the nuclear facilities in this application approved by
- 24 the OEB. The resulting rider in effect from January 1, 2017 to December 31, 2018 would be
- 25 \$2.85/MWh.

Numbers may not add due to rounding.

Filed: 2016-05-27

EB-2016-0152

Exhibit H1

Tab 2 Schedule 1 Table 1

Table 1

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

Line No.	Account	Audited Year End Balance 2015 <sup>1</sup>	EB-2014-0370 OEB-Approved Amortization 2016 <sup>2</sup>	(a)-(b) 2015 Balance Less 2016 Approved Amortization	Recovery Period (months)	Amortization Jan - Dec 2017	Amortization Jan - Dec 2018	(e)+(f) Amortization Jan 2017 - Dec 2018	(c)-(g) Unamortized Balance At Dec 31, 2018
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Hydroelectric Water Conditions Variance	(23.0)	(5.6)	(17.3)	24	(8.7)	(8.7)	(17.3)	0.0
2	Ancillary Services Net Revenue Variance - Hydroelectric	(24.2)	(11.0)	(13.2)	24	(6.6)	(6.6)	(13.2)	0.0
3	Hydroelectric Incentive Mechanism Variance	(1.7)	(1.7)	(0.1)	24	(0.0)	(0.0)	(0.1)	0.0
4	Hydroelectric Surplus Baseload Generation Variance	114.4	31.9	82.5	24	41.2	41.2	82.5	0.0
5	Income and Other Taxes Variance - Hydroelectric	(0.1)	(0.1)	(0.0)	24	(0.0)	(0.0)	(0.0)	0.0
6	Capacity Refurbishment Variance - Hydroelectric	83.2	79.9	3.3	24	1.6	1.6	3.3	0.0
7	Pension and OPEB Cost Variance - Hydroelectric - Future	9.5	1.1	8.4	96	1.1	1.1	2.1	6.3
8	Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions	32.5	5.9	26.6	54	5.9	5.9	11.8	14.8
9	Pension & OPEB Cash Versus Accrual Differential Deferral - Hydroelectric <sup>3</sup>	44.2	0.0	44.2	N/A	0.0	0.0	0.0	44.2
10	Pension & OPEB Cash Payment Variance - Hydroelectric	4.3	0.0	4.3	24	2.1	2.1	4.3	0.0
11	Hydroelectric Deferral and Variance Over/Under Recovery Variance	16.5	3.0	13.5	24	6.7	6.7	13.5	0.0
12	Total	255.5	103.4	152.1				86.8	65.2
13	Forecast Production <sup>4</sup> (TWh)							60.5	
14	Regulated Hydroelectric Payment Rider (\$/MWh) (line 12 / line 13)							1.44	

- 1 From Ex. H1-1-1 Table 1, col (b)
- 2 From EB-2014-0370 Payment Amounts Order App. A Table 1, col (f).
- 3 Account not proposed for disposition in this application as discussed in Ex. H1-1-1
- 4 2015 Actual Production of 30.2 TWh (divided by 12 months multiplied by 24 months)

Numbers may not add due to rounding.

Filed: 2016-05-27

EB-2016-0152

Exhibit H1 Tab 2 Schedule 1 Table 2

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

Line	Account	Audited Year End Balance 2015 <sup>1</sup>	EB-2014-0370 OEB-Approved Amortization 2016 <sup>2</sup>	(a)-(b) 2015 Balance Less 2016 Approved Amortization	Recovery Period (months)	Amortization Jan - Dec 2017	Amortization Jan - Dec 2018	(e)+(f) Amortization Jan 2017 - Dec 2018	(c)-(g) Unamortized Balance At Dec 31, 2018
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Nuclear Liability Deferral	190.5	190.5	0.0	24	0.0	0.0	0.0	0.0
	Nuclear Development Variance	3.3	1.6	1.7	24	0.9	0.9	1.7	0.0
	Ancillary Services Net Revenue Variance - Nuclear	2.1	1.2	1.0	24	0.5	0.5	1.0	0.0
	Capacity Refurbishment Variance - Nuclear - Capital Portion	(32.5)	5.0	(37.6)	24	(18.8)	(18.8)	(37.6)	0.0
	Capacity Refurbishment Variance - Nuclear - Non-Capital Portion	(30.8)	0.8	(31.6)	24	(15.8)	(15.8)	(31.6)	0.0
6	Bruce Lease Net Revenues Variance - Derivative Sub-Account	(4.5)	64.1	(68.6)	24	(34.3)	(34.3)	(68.6)	0.0
7	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - EB-2012-0002	18.7	18.7	0.0	24	0.0	0.0	0.0	0.0
8	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - Post 2012 Additions	103.1	82.5	20.6	24	10.3	10.3	20.6	0.0
9	Income and Other Taxes Variance - Nuclear	(13.1)	(8.8)	(4.3)	24	(2.2)	(2.2)	(4.3)	0.0
10	Pension and OPEB Cost Variance - Nuclear - Future	193.2	21.5	171.7	96	21.5	21.5	42.9	128.8
11	Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions	622.0	113.1	508.9	54	113.1	113.1	226.2	282.7
12	Pension & OPEB Cash Versus Accrual Differential Deferral - Nuclear <sup>3</sup>	271.1	0.0	271.1	N/A	0.0	0.0	0.0	271.1
13	Pension & OPEB Cash Payment Variance - Nuclear	23.4	0.0	23.4	24	11.7	11.7	23.4	0.0
14	Pickering Life Extension Depreciation Variance	5.2	5.2	0.0	24	0.0	0.0	0.0	0.0
15	Nuclear Deferral and Variance Over/Under Recovery Variance	81.7	37.6	44.1	24	22.1	22.1	44.1	0.0
16	Total	1,433.4	533.0	900.5				217.9	682.6
17	Forecast Production <sup>4</sup> (TWh)							76.6	
	Nuclear Payment Rider (\$/MWh) (line 16 / line 17)							2.85	

- 1 From Ex. H1-1-1 Table 1, col (b)
- 2 From EB-2014-0370 Payment Amounts Order, App. A, Table 2, col (f).
- 3 Account not proposed for disposition in this application as discussed in Ex. H1-1-1
- 4 From Ex. E2-1-1 Table 1, line 3, col. (e) plus col. (f).