1 THIRD IMPACT STATEMENT 2 3 4 1.0 PURPOSE 5 The purpose of this exhibit is to reflect the impact of material changes made to the regulation 6 governing the rate smoothing proposal in this application. This evidence sets out a revised 7 rate smoothing proposal in accordance with O. Reg. 53/05 (the "Regulation") as amended on 8 March 2, 2017.¹ The regulatory changes impact the rate smoothing evidence (section 2 of 9 Ex. A1-3-3), with consequential impacts on OPG's deferral and variance accounts (Ex. H1-1-10 1), Revenue Requirement Work Form (Ex. I1-1-1, Attachment 1), consumer impact evidence 11 (Ex. I1-1-2) and Nuclear Payment Amounts (Ex. I1-3-1). 12 13 Consistent with the previously filed Impact Statements (Ex. N1-1-1 and Ex. N2-1-1), OPG 14 has consolidated the relevant updates to its evidence in this exhibit. 15 16 2.0 **OVERVIEW OF REVISED RATE SMOOTHING PROPOSAL** 17 Before the amendments, the Regulation required smoothing the annual changes in OPG's 18 nuclear payment amounts.² Under the amended Regulation, the objective of rate smoothing 19 is to make more stable the total OPG weighted average payment amounts ("WAPA")³ during 20 the deferral period⁴ by adjusting the nuclear payment amounts within the WAPA. So, while 21 nuclear payment amounts continue to be the aspect of OPG's rates that is adjusted under 22 the amended Regulation, the objective of those adjustments is now to produce a more stable 23 change in the total OPG WAPA. These adjustments to the nuclear payment amounts 24 ultimately determine the annual amounts of nuclear revenue requirement to be deferred and 25 recorded in the rate smoothing deferral account ("RSDA") established pursuant to the 26 Regulation.

A copy of the amended Regulation is provided as Attachment 1 to this schedule.

² As described in Ex. A1-3-3, Section 2.0.

³ The WAPA includes both hydroelectric and nuclear payment amounts and payment riders. Section 0.1(1) of the amended O. Reg. 53/05 prescribes how WAPA is to be calculated.

⁴ As defined in s. 0.1(1) of O. Reg. 53/05, the deferral period is "the period beginning on January 1, 2017, and ending when the Darlington Refurbishment Project ends".

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1 Under the amended Regulation, rate smoothing continues to be directed at managing the 2 annual impact on customers during the deferral period. Absent smoothing, the rate impact 3 and volatility in the 2017-2021 period are driven by reduced production as Darlington units 4 are taken out of service to be refurbished, partially offset by production at the Pickering 5 generating station in 2021 due to the plan to extend operations, and costs associated with 6 the Darlington Refurbishment Program. The amended Regulation changes the method by 7 which nuclear revenue requirement is distributed throughout the deferral period. Relative to 8 OPG's original proposal (Ex. A1-3-3, section 2.0), rate smoothing based on WAPA will result 9 in a more stable year-over-year change in customers' bills, which OPG believes will benefit 10 customers.

11

Section 3.0 of this schedule provides a detailed description of the changes in the amended Regulation. Section 4.0 provides changes to the rate smoothing considerations discussed in Ex. A1-3-3, section 2.3. Section 5.0 describes the inputs into the calculation of the WAPA and the customer bill impact calculation.

16

Section 6.0 sets out OPG's proposal and alternatives considered. OPG proposes that the average annual change in WAPA during the 2017 to 2021 period be 2.5% (the "smoothed rate"), which would result in a cumulative deferred revenue requirement of approximately \$1B in that period.⁵ This proposal would result in an average annual increase of \$0.65 on the typical residential customer's monthly bill during the 2017 to 2021 period, compared to the average annual increase of \$1.05 proposed under the previous revision of the Regulation.

23

Section 7.0 discusses implementation of rate smoothing, and Section 8.0 provides an update
to certain interrogatories and undertakings to reflect the revised rate smoothing proposal.
Section 9.0 updates the Approvals OPG is seeking, as reflected in the updated version of Ex.
A1-2-2 that OPG has filed.

⁵ Annual deferred amounts are provided in Chart 4. The deferred amount excludes interest of approximately \$0.12B based on OPG's annual long-term debt rates as discussed in Ex. C1-1-2.

1	3.0 A	MENDED REQUIREMENTS OF O. REG. 53/05
2	The amer	nded O. Reg. 53/05, s. 6(2) subparagraph 12(i) states:
3 4 5 6 7 8 9		"the Board shall determine the portion of the Board-approved revenue requirement for the nuclear facilities for each year that is to be recorded in the deferral account established under subsection 5.5 (1), with a view to making more stable the year-over-year changes in the OPG weighted average payment amount [WAPA] over each calculation period." [emphasis added]
10	The calcu	lation of OPG's WAPA is described in section 3.1 below.
11		
12	The "calc	ulation period" is defined in s. 0.1(1) of the Regulation as:
13 14 15 16		"each period for which the Board determines the approved revenue requirements under subparagraph 12 ii of subsection 6 (2) together with the year immediately prior to that period"
17	Subparag	raph 12(ii) of subsection 6(2) of the Regulation was not amended and continues to
18	require th	nat the OEB determine nuclear revenue requirements and amounts to be deferred
19	on a five-	year basis for the first 10 years of the deferral period (2017-2026). There were no
20	changes	to the terms of the RSDA from the previous revision of the Regulation.
21		
22		
23	3.	1 Calculation of Weighted Average Payment Amount (WAPA)
24 25 26 27	Section 0 formula:	.1(1) of the Regulation defines OPG's WAPA for a year through the following
		((NPA + NPR) × NPF) + ((HPA + HPR) × HPF))
28		(NPF + HPF)
29 30	NPA	(Nuclear Payment Amount) is the Board-approved payment amount for the year in respect of the nuclear facilities
31 32 33 34 35	NPR	(Nuclear Payment Riders) is the Board-approved payment amount rider for the year in respect of the recovery of balances recorded in the deferral accounts and variance accounts established for the nuclear facilities, excluding the RSDA
35 36 37	NPF	(Nuclear Production Forecast) is the Board-approved production forecast for the nuclear facilities for the year

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1 2 HPA (Hvdroelectric Payment Amount) is the Board-approved payment amount for 3 the year, or the expected payment amount resulting from a Board-approved rate-4 setting formula, as applicable, in respect of the [prescribed] hydroelectric facilities 5 6 HPR (Hydroelectric Payment Riders) is the Board-approved payment amount rider 7 for the year in respect of the recovery of balances recorded in the deferral 8 accounts and variance accounts established for the hydroelectric facilities 9 10 HPF (Hydroelectric Production Forecast) is the Board-approved production forecast 11 for the hydroelectric facilities for the year 12 13 The NPR, NPF, HPA, and HPR are collectively referred to as the "inputs" in this evidence, 14 since they are the values that the OEB must approve in this application in order to determine 15 the annual amounts of nuclear revenue requirement to be recorded in the RSDA for the 16 2017-2021 period. While the NPA is also approved by the OEB, it is an output (rather than an 17 input) of the prescribed formula since it will reflect the annual deferral of nuclear revenue 18 requirement. As described in section 5.0 below, HPF reflects the average annual production 19 forecast approved by the OEB in EB-2013-0321. 20 21 Each of the following steps is necessary in order to determine the amounts to be deferred in 22 the RSDA:

1

Step	Action	Basis in O. Reg. 53/05
1	Establish the RSDA	s. 5.5(1)
2	Approve annual nuclear revenue requirements for five year term, absent any deferral	s. 5.5(1)(a) s. 6(2)12(ii) s. 6(2)12(iii)
3	Approve required WAPA inputs for each year	
4	Determine the annual change in the WAPA, applying considerations listed in sections 4.0 and 6.0 of this evidence (including impact on customer bills) to assess options with a view to making more stable the year-over-year changes in the WAPA over each calculation period ("Smoothed WAPA Rate")	s. 0.1(1) s. 6(2)12(i)
5	Using the Smoothed WAPA Rate determined in Step 4 and the inputs approved in Step 3, determine the annual NPA	s. 0.1(1)
6	Determine annual deferred amount to be recorded in RSDA for each year of the five year term [Step 2 - (NPA x NPF)]	s. 5.5(1)(b) s. 6(2)12(i)

2

3

4.0 RATE SMOOTHING CONSIDERATIONS

4 5

6 In section 2.3 of Ex. A1-3-3, OPG identified and defined the six considerations that informed

7 its rate smoothing proposal:

8

- 9 FINANCIAL PERFORMANCE
- 10 1. Financial Viability

11 CUSTOMER FOCUS

- 12 2. Rate Stability
- 13 3. Long-term Perspective
- 14 4. Post-Recovery Transition
- 15 5. Intergenerational Equity
- 16 6. Customer Bill Impact
- 17

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1 These considerations continue to apply to smoothing based on WAPA.

2

OPG believes that these considerations continue to provide an appropriate lens through which to consider potential rate smoothing scenarios. OPG has attempted to balance these considerations in producing a revised rate smoothing proposal that is consistent with the amended Regulation, the objectives of the OEB, and the outcomes identified in the Renewed Regulatory Framework for Electricity Distributors ("RRFE").⁶

- 8
- 9

5.0 INPUTS TO RATE SMOOTHING

10

As discussed in sections 3.0 and 3.1 above, the OEB must determine the inputs to OPG's WAPA as defined in the Regulation before it can determine the amounts of revenue requirement to defer each year of the 2017-2021 period. This section identifies the values for the inputs to be determined in this Application.

15

16 The nuclear revenue requirements and production forecasts (NPF) proposed in this 17 application are summarized in Chart 1 below. The nuclear revenue requirements reflect 18 updates in Ex. N1-1-1 and Ex. N2-1-1.

- 19
- 20

Chart 1: Nuclear Revenue Requirements and Production

	2017	2018	2019	2020	2021
Proposed Revenue Requirement (\$M)	\$ 3,161	\$ 3,186	\$ 3,273	\$ 3,783	\$ 3,398
Forecast Production (TWh)	38.1	38.5	39.0	37.4	35.4

21 22

Hydroelectric Payment Amount (HPA): Pursuant to the Regulation, OPG has calculated
WAPA using the HPA proposed for 2017, escalated by the proposed price-cap index
throughout the 2018-2021 period. Based on the proposed 2017 hydroelectric rate escalated
by 1.5% per year, the amounts used are as set out in Ex. I1-2-1 Table 1: \$41.71/MWh

⁶ Ontario Energy Board Act, 1998, section 1(1), in particular, "to protect the interests of consumers with respect to prices" and "to facilitate the maintenance of a financially viable electricity industry". OPG considered the RRFE objectives of Customer Focus and Financial Performance relevant to the setting of smoothed rates.

1 (2017); \$42.33/MWh (2018); \$42.97/MWh (2019); \$43.61/MWh (2020); and \$44.27/MWh 2 (2021).

3

Nuclear Payment Rider (NPR) and Hydroelectric Payment Rider (HPR): To calculate WAPA, OPG has used the hydroelectric and nuclear payment riders as proposed for 2017 and 2018 in Ex. H1-2-1: \$1.44/MWh and \$2.85/MWh, respectively. No riders are reflected for 2019-2021, as none are proposed in this Application. Any payment riders the OEB may establish for that period would be separate from the rate smoothing proposal and would not affect the revenue requirement deferral amounts approved by the OEB in this proceeding.

10

11 **Determination of Annual Change in WAPA**: Pursuant to the Regulation, the calculation 12 period in this application is 2016-2021. OPG calculates WAPA for each year in the 13 calculation period as demonstrated in Ex. N3-1-1 Table 2.

14

15 Total OPG Regulated Production: Per the Regulation, OPG arrived at the 2016 weighted 16 average payment amount using the average of the 2014 and 2015 OEB approved 17 production.⁷ For 2017 onward, OPG has utilized the proposed nuclear production forecast⁸ 18 and the average of the 2014 and 2015 OEB approved hydroelectric production.⁹

- 19
- 20

5.1 Post-2021 Projections used in Smoothing Analysis

Since payment amounts set for 2017 will have implications for the rates set later in the deferral and recovery periods, an understanding of forecast nuclear costs and production for the entire deferral and recovery period is necessary context for the revised rate smoothing proposal.¹⁰ While it is not possible to forecast revenue requirement and productions out 20 years with a high degree of accuracy, Chart 2 provides OPG's view of the approximate longer-term nuclear revenue requirements and production, along with indicative average

⁷ See Ex. N3-1-1 Table 2 Note 3.

⁸ Ex. E2-1-1 Table 1.

⁹ 33 TWh, per EB-2013-0321, Decision with Reasons, November 20, 2014, p. 9.

¹⁰ As discussed in section 2.0, rate smoothing is primarily driven by variations in nuclear costs and production during the deferral period. Therefore the rate smoothing analysis in this evidence is based on stable hydroelectric production and hydroelectric payment amount escalation at the proposed price-cap index throughout the deferral and recovery periods.

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- 1 nuclear rates that would result for the 2021-2036 period without smoothing, in nominal
- 2 dollars.
- 3
- 4

Chart 2: Nuclear Revenue Requirement, Production and Average Rate

	201	7-2021	202	22-2026	202	7-2031	203	2-2036
Anticipated Revenue Requirement (\$BN)	\$	16.8	\$	18.1	\$	18.2	\$	17.1
Anticipated Production (TWh)		188		130		136		141
Average Rate (\$/MWh)	\$	89	\$	139	\$	135	\$	121

5 6

7 The average rate (absent rate smoothing) for the 2032 to 2036 period reflects both the 8 planned completion of the DRP and assumed completion of activities and costs associated 9 with the planned end of commercial operations at Pickering. OPG believes that the average 10 forecast 2032 to 2036 NPA is a reasonable proxy for the rate that will prevail after the cost 11 deferral and recovery cycle. To minimize the impact of transitioning to non-smoothed rates 12 after the RSDA is recovered, the final NPA in the recovery period should be similar to the 13 post-transition rate (i.e., approximately \$120/MWh forecast above). The transition impact in 14 Chart 3 compares the projected 2036 NPA under the rate smoothing scenarios against the 15 post-transition nuclear rate in 2036.

16

17 The Regulation requires the OEB to authorize recovery of the balance in the RSDA over a 18 period not to exceed ten years.¹¹ As the magnitude of the costs being deferred is in the 19 billions of dollars, OPG's revised smoothing proposal continues to assume that the RSDA 20 balance is recovered over the maximum ten-year period.

21 22

5.2 Customer Bill Impact Calculation

OPG has determined the annualized residential consumer impact on a basis that is consistent with both previous OEB proceedings and with the approach taken in the pre-filed evidence. The updated calculation of the annualized impact reflects the current proposed 2017-2021 nuclear revenue requirement and revisions to O. Reg. 53/05. The annualized residential customer impact is determined by multiplying the year-over-year change in

¹¹ O. Reg. 53/05 section 6 (2), subparagraph 12 (iii).

1 WAPA¹² by the proportion that OPG production comprises of a typical residential customer's 2 consumption in the year.¹³ Ex. N3-1-1 Tables 1 and 2 provide the computation of these 3 impacts for 2017 through 2021. OPG used the inputs described below to calculate the 4 consumer impacts, consistent with the pre-filed evidence:

- 5
- Typical residential consumption: 789 kWh is based on the typical monthly
 consumption (750 kWh) in the OEB "Bill Calculator" for estimating monthly electricity
 bills (using Time of Use pricing), available at:
 http://www.ontarioenergyboard.ca/OEB/Consumers/Electricity/Your+Electricity+Utility.
- 10 Typical Consumption includes line losses (Assumed loss factor of 1.0525).
- 12 **Typical residential bill:** \$150.58 is taken from the OEB "Bill Calculator" for
- 13 estimating monthly electricity bills (using Time of Use pricing), available at:
- 14 <u>http://www.ontarioenergyboard.ca/OEB/Consumers/Electricity/Your+Electricity+Utility</u>.
- 15 OPG runs this bill calculator tool for all local distribution companies available in the bill 16 calculator and uses a simple average of all of the bills as the typical bill.
- 17

11

- 18Forecast of 2017 Provincial Demand: Based on forecast demand for 201719(137.6 TWh) from Table 3.1 of IESO 18-Month Outlook Update for April 2016 to
- 20 September 2017, published on March 22, 2016.
- 21

22

23 6.0 PROPOSAL AND ALTERNATIVE RATE SMOOTHING SCENARIOS

24

Following the amendments to the Regulation, OPG identified a range of scenarios that produce a more stable WAPA (and, by extension, more stable customer bill impacts). These scenarios are set out in Chart 3, below. As a threshold, OPG determined that it would not consider scenarios that increased the forecast cost of rate smoothing (i.e., the cumulative

¹² N3-1-1 Table 1, line 8.

¹³ N3-1-1 Table 1, line 2.

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1 interest amount over the deferral and recovery periods) relative to the company's proposal

- 2 under the previous revision of the Regulation.
- 3

4 Since the OEB is not approving payment amounts or RSDA deferral amounts beyond 2021 5 in this application, Chart 3 includes illustrative trends for OPG's WAPA and the average year-6 over-year change in a typical residential customer's monthly bill throughout the 20-year 7 deferral and recovery period. Chart 3 also includes the approximate peak RSDA account 8 balance, the credit metrics associated with each option, and the final smoothed rate at the 9 end of the recovery period. As with the scenarios originally presented in Ex. A1-3-3 Chart 3, 10 the actual trajectory of payment amounts will depend on the OEB's decisions throughout the 11 remainder of the deferral and recovery periods. 12 13 For reference, Chart 3 also includes the original 11% nuclear payment amount smoothing

14 proposal filed in Ex. A1-3-3, updated to reflect current nuclear revenue requirement amounts

15 (per the first and second impact statements, Ex. N1-1-1 and Ex. N2-1-1).

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	Original 11%	_	В	_	_	_
	Proposal ¹	Α	(Proposed)	С	D	E
2017-2021 Average Annual						
Change in WAPA	4.3%	2.0%	2.5%	3.0%	3.5%	4.0%
2022-2026 Average Annual						
Change in WAPA ²	6.9%	8.3%	7.0%	5.7%	4.3%	3.0%
2027-2036 Average Annual						
Change in WAPA ²	(1.9)%	(1.5)%	(1.0)%	(0.3)%	0.5%	1.2%
Peak RSDA Balance (\$B)	\$3.3	\$3.2	\$2.9	\$3.0	\$3.2	\$3.4
Total Interest (\$B)	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4
Interest Cost / Deferred	0.5	0.5	0.5	0.5	0.5	0.4
Revenue Ratio	0.5	0.5	0.5	0.5	0.5	0.4
FFO Interest Coverage > = 3	3.6/5.3	4.5/5.0	4.6/5.4	4.6/5.8	4.7/6.2	4.8/6.7
(2017-2021) / (2022-2026)	0.070.0	4.07 0.0	4.07 0.4	4.07 0.0	4.7 / 0.2	4.07 0.7
DEBT to EBITDA < = 5.5	6.2/5.3	5.9/5.3	5.9/5.2	5.8/5.0	5.8/4.9	5.7/4.7
(2017-2021) / (2022-2026)	0127 010	0.070.0	010 / 012	0.070.0	0.07 1.0	0.1 / 1.1
Nuclear Payment Amount	(\$4.3)	\$1.0	(\$3.7)	(\$9.3)	(\$16.8)	(\$22.7)
Transition Impact (\$/MWh)	(+ - /	+-	(***)	(+)	(+ · · · · ·)	(+==)
Average Annual Bill Impact	a - 0/	0.00/	• • • • •		0.00/	0.70/
(2017-2021) in %	0.7%	0.3%	0.4%	0.5%	0.6%	0.7%
Average Annual Bill Impact	¢4.05	ФО Б 1	*0.05	<u> </u>	¢0.02	¢1.07
(2017-2021) in \$	\$1.05	\$0.51	\$0.65	\$0.79	\$0.93	\$1.07
Average Annual Bill Impact		0.00/		0.40/	0 404	0.404
(2017-2036) in % ²	0.3%	0.3%	0.3%	0.4%	0.4%	0.4%
Average Annual Bill Impact				.		
(2017-2036) in \$ ²	\$0.43	\$0.43	\$0.47	\$0.53	\$0.60	\$0.65

Chart 3: Proposed and Alternative Rate Smoothing Scenarios

Notes

¹ Updated to reflect changes to Nuclear revenue requirement in Ex. N1-1-1 and Ex. N2-1-1. Nuclear Payment Amount smoothing is inherently more volatile than smoothing based on WAPA. This is primarily due to the impact that year-over-year production differences have on the annual WAPA, as well as the expiry of higher payment riders in effect during 2016. The average year-over-year change in the WAPA shown for the Original 11% Proposal is therefore not directly comparable with the more consistent year-over-year change in the period in the smoothing scenarios under the amended Regulation.

² Calculated assuming that hydroelectric payment amounts continue to escalate at 1.5% per year throughout the 2017-2036 period pursuant to the price-cap as proposed in Ex. I1-2-1 Table 1 and no payment riders beyond those proposed in this application.

2

1

Based on its assessment of the alternatives above, using the considerations described in section 4.0 above, OPG proposes an average annual WAPA increase of 2.5% per year during the 2017-2021 period. This rate of increase would result in an average year-over-year increase of approximately \$0.65 on the typical residential customer's monthly bill during the 2017-2021 period. The methodology by which OPG calculated customer bill impacts in Chart 3 is provided in Section 5.2 above.

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1 OPG has calculated the nuclear payment amount (NPA) required to arrive at a 2.5%

2 increase in WAPA in Ex. N3-1-1 Table 3.

3

4 OPG applied the following rationales to evaluate each option for each of the assessment 5 considerations:

6

Financial Viability (Leverage and Cash Flow Impacts): Higher values for the
FFO Adjusted Interest Coverage ratio and lower values for the Debt to EBITDA
credit metric reduce financial risk to OPG. OPG's assessment was based on at
least one of the two metrics cited above being within threshold at all times
during each of the two 5-year deferral periods (i.e., 2017 to 2021 and 2022 to
2026). All scenarios in Chart 3 meet this threshold.

13

Rate Stability: All of the scenarios in Chart 3 result in a constant year-over-year change in WAPA within the two halves of the deferral period and within the recovery period. In each scenario, the year-over-year change in WAPA varies between the two halves of the deferral period, and again at the beginning of the recovery period. Lower variances at each of these points are better.

19

Long-Term Perspective: The assessment was based on the size of the
 average year-over-year change in WAPA during the recovery period (closer to 0
 per cent is better).

23

Post-Recovery Transition: The assessment was based on the size of the change in the nuclear payment amount at the end of the recovery period (smaller is better) to the forecast post-transition payment amount of approximately \$120/MWh.

28

Intergenerational Equity: The assessment was based on the ratio of total
 interest costs to total amounts deferred (total interest / total amounts deferred).
 A lower ratio implies a lower cost of deferring revenue under that alternative.

Intergenerational equity involves striking a balance between the benefits of
 deferring revenue and the costs of the deferral; therefore OPG's assessment
 placed value on a ratio that best reflects this balance (i.e., neither the highest
 nor the lowest ratio).

5

6

7

- **Customer Bill Impact**: Each scenario was assessed based on the resulting average year-over-year change in a typical residential customer's monthly bill, both in the 2017-2021 period and over the full deferral and recovery periods.
- 8 9

10 In OPG's assessment, Scenario B results in the best overall balance based on the 11 application of the above considerations. While Scenarios A, B, and C each perform well on 12 several considerations, Scenario B best balances the considerations outlined above. 13 Scenario A has the steepest rate change in the recovery period and the least stable WAPA in 14 2022 and 2027, and although Scenario C produces a smaller change in WAPA between the 15 two halves of the deferral period, it also produces less optimal results than Scenario B in 16 terms of bill impact and the transition rate. Scenario B also produces the lowest peak RSDA 17 balance. Overall, Scenario B best addresses the considerations and reflects the best overall 18 proposal.

19

Relative to OPG's proposal under the previous version of the Regulation, the main benefit of the revised proposal is a significantly lower average annual bill impact in the 2017-2021 period. Under the previous proposal, the annual average of year-over-year increases in customers' monthly bills over the period was forecast at approximately \$1.05, as opposed to a less variable \$0.65 under the revised proposal.

25

Under the revised proposal, OPG expects that the rate of change in the company's WAPA will be different between the first and second halves of the deferral period. However the average annual rate of change in WAPA is expected to be consistent within each five-year period, meaning that the proposal would result in a consistent rate of increase during the deferral period (except for the transition between 2021 and 2022) and a consistent average annual decrease in WAPA during the recovery period. Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Page 14 of 17

1

OPG's proposal results in deferring the collection of approximately \$1B in revenue in the 2017 to 2021 period, as reflected in Chart 4 below. This is approximately \$0.4B less than OPG proposed to defer under the previous proposal (after adjustments to account for the reduced nuclear revenue requirement in the previous impact statements). The nuclear payment amounts have been updated based on the level of deferred recovery associated with this proposal.

- 8
- 9

Chart 4: OPG Proposed Deferred Revenue Requirement

	2017	2018	2019	2020	 2021	Total
Proposed Revenue Requirement (\$M)	\$ 3,161	\$ 3,186	\$ 3,273	\$ 3,783	\$ 3,398	\$ 3,617
Forecast Production (TWh)	38.10	38.47	39.03	37.36	35.38	26.01
Smoothed Rate (\$/MWh)	\$ 76.39	\$ 78.60	\$ 84.83	\$ 88.21	\$ 92.02	N/A
Smoothed Revenue (\$M)	\$ 2,910	\$ 3,024	\$ 3,311	\$ 3,295	\$ 3,256	\$ 15,796
Deferred Revenue Requirement (\$M)	\$ 251	\$ 162	\$ (38)	\$ 488	\$ 142	\$ 1,005

10 11

12 **7.0 IMPLEMENTATION**

The specific revenue requirement deferral amounts proposed in section 6.0 are produced by adjusting the approved nuclear payment amounts to achieve the desired annual rate of change in the total WAPA. The OEB's findings on the proposed nuclear revenue requirements, nuclear production forecast, hydroelectric and nuclear payment riders and the hydroelectric IRM formula will necessarily impact the 2017-2021 NPA, the annual deferred nuclear revenue requirement, and the resulting WAPA.

19

Nuclear rate smoothing is unique in terms of the magnitude of the proposed deferred amounts, and the number of interrelated decisions required. To the extent the OEB's decision changes the rate smoothing inputs, it may be expedient for the OEB to make a decision on the nuclear revenue requirements and the inputs (steps 2 and 3 of the chart in section 3.1 above), and withhold its final decision on the "outputs" (i.e., the annual change in WAPA, the resulting nuclear payment amount, and the amount to be deferred in the RSDA) until the Payment Amount Order approval process (steps 4, 5 and 6).

If the OEB defers its determination of the outputs to the Payment Amount Order approval process, OPG could apply the OEB's findings on the inputs and the considerations listed in sections 4.0 and 6.0 at that time. OPG could provide requested options for the NPA, the annual nuclear deferred revenue requirement and the resulting WAPA in the same format and level of detail as Chart 3.

- 6
- 7

8.0 UPDATED TABLES, INTERROGATORY RESPONSES AND UNDERTAKINGS

8 This schedule includes revised version of three tables from Exhibit I, updated as necessary
9 to be consistent with the changes to the Regulation and OPG's proposal:

- 10
- **Table 1**: Annualized Residential Consumer Impact (updated Ex. I1-1-2 Table 1)
- 11 12
- **Table 2**: Computation of Percent Change in Payment Amounts (updated Ex. I1-1-2 Table 2)
- 13
- **Table 3**: Payment Amounts and Riders Nuclear (updated Ex. I1-3-1 Table 1)
- 14

Given the late stage of the proceeding in which the Regulation was amended, and in order to facilitate an efficient and timely hearing process, OPG has identified certain interrogatories and technical conference undertakings seeking quantitative analyses related to the rate smoothing proposal, and has provided updated responses to these questions in Attachment 2 to this schedule.

20

Attachment 3 is an updated Revenue Requirement Work Form ("RRWF") originally filed as Ex. I1-1-1, Attachment 1. The revised RRWF has been adjusted to reflect the customer bill impact changes resulting from the revised smoothing proposal. Updated rows are marked. OPG has also filed a live Excel version of the revised RRWF.

25

26 9.0 SUMMARY OF CHANGES IN APPROVALS SOUGHT

The items identified in this Impact Statement result in amendments to the following approvals sought by OPG in this Application for the IR period: (i) payment amounts for the nuclear facilities, and (ii) the portion of the annual nuclear revenue requirements deferred under rate smoothing during the 2017 to 2021 period.

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- 1 The updated approvals are detailed below. Along with this schedule, OPG has filed an
- 2 amendment to Ex. A1-2-2 to reflect these changes.

3

4 Nuclear Payment Amounts

5

Effective Date	Payment Amount
January 1, 2017	\$76.39/MWh
January 1, 2018	\$78.60/MWh
January 1, 2019	\$84.83/MWh
January 1, 2020	\$88.21/MWh
January 1, 2021	\$92.02/MWh

6

7 Deferred Revenue Requirement Amounts

8 OPG proposes that annual OPG weighted average payment amounts (as defined by

9 O. Reg. 53/05, s. 0.1(1)) reflect a constant 2.5% per year rate increase during the 2017 to

10 2021 period resulting in a deferred nuclear revenue requirement of \$251M, \$162M, \$(38)M,

11 \$488M, and \$142M in 2017, 2018, 2019, 2020 and 2021, respectively.

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Page 17 of 17

1 2	ATTACHMENTS
3	
4	Attachment 1: O. Reg. 53/05 as amended March 2, 2017
5	
6	Attachment 2: Updated Rate Smoothing Interrogatory Responses and Undertakings
7	
8	Attachment 3: Updated Revenue Requirement Work Form
9	

Table 1 Annualized Residential Consumer Impact (Updated Ex.I1-1-2 Table 1) EB-2013-0321 / EB-2014-0370 to EB-2016-0152

Line		2017	2018	2019	2020	2021
No.	Description	Amount	Amount	Amount	Amount	Amount
		(a)	(b)	(C)	(d)	(e)
1	Typical Consumption ¹ (kWh/Month)	789	789	789	789	789
0		400	440	440	100	
2	Typical Usage of OPG Generation (kWh/Month) (line 1 x line 11)	408	410	413	403	392
3	Typical Bill ¹ (\$/Month)	150.58	150.58	150.58	150.58	150.58
4	Typical Bill Impact (\$/Month) (line 2 x line 8 / 1000)	0.62	0.64	0.66	0.66	0.66
5	Typical Bill Impact (%) (line 4 / line 3)	0.4%	0.4%	0.4%	0.4%	0.4%
6	Prior Year weighted average rate with proposed payment amounts and riders ^{2,3} (\$/MWh)	60.97	62.50	64.06	65.66	67.30
7	Current Year weighted average rate with proposed payment amounts and riders ^{2,3} (\$/MWh)	62.50	64.06	65.66	67.30	68.98
8	Change in OPG weighted average rate (\$/MWh) (line 7 - line 6)	1.52	1.56	1.60	1.64	1.68
9	Total OPG Regulated Production ⁴ (TWh)	71.1	71.4	72.0	70.3	68.4
10	Forecast of 2017 Provincial Demand ⁵ (TWh)	137.6	137.6	137.6	137.6	137.6
11	OPG Proportion of Consumer Usage (line 9 / line 10)	51.7%	51.9%	52.3%	51.1%	49.7%

Notes:

3 Uses Nuclear smoothed rate per Ex. N3-1-1 Table 3, IRM Hydro rate (illustrative after 2017) per Ex. I1-2-1 Table 1

4 From Ex.N3-1-1 Table 2, line 5.

5 Based on forecast demand for 2017 (137.6 TWh) from Table 3.1 of IESO 18-Month Outlook Update for April 2016 to September 2017, published March 22, 2016.

¹ Typical monthly consumption (750 kWh) and typical monthly bill are based on the OEB "Bill Calculator" for estimating monthly electricity bills (using Time of Use pricing), available at: http://www.ontarioenergyboard.ca/OEB/Consumers/Electricity/Your+Electricity+Utility Typical Consumption includes line losses (Assumed loss factor of 1.0525)

² From Ex. N3-1-1 Table 2, line 8

Numbers may not add due to rounding.

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Table 2

Table 2 Computation of Percent Change in Payment Amounts (Updated Ex.I1-1-2 Table 2) EB-2013-0321 / EB-2014-0370 to EB-2016-0152

Line No.	Description	Note	2016 per EB-2013-0321 Payment Amounts Order plus EB-2014-0370 Riders	2017 per EB-2016-0152 Proposed Payment Amount plus EB-2016-0152 Riders	2018 per EB-2016-0152 Proposed Payment Amount plus EB-2016-0152 Riders	2019 per EB-2016-0152 Proposed Payment Amount	2020 per EB-2016-0152 Proposed Payment Amount	2021 per EB-2016-0152 Proposed Payment Amount
			(a)	(b)	(c)	(d)	(e)	(f)
1	Regulated Hydroelectric Rate Including Rider (\$/MWh)	1	44.55	43.15	43.77	42.97	43.61	44.27
2	Nuclear Rate Including Rider (\$/MWh)	2	72.30	79.24	81.45	84.83	88.21	92.02
3	Regulated Hydroelectric Production (TWh)	3	33.0	33.0	33.0	33.0	33.0	33.0
4	Forecast Nuclear Production (TWh)	3	47.8	38.1	38.5	39.0	37.4	35.4
5	Total Production (TWh) (line 3 + line 4)		80.8	71.1	71.4	72.0	70.3	68.4
	Regulated Hydroelectric Portion of Production-Weighted Average Rate (\$/MWh) (line 1 x line 3 / line 5)		18.19	20.02	20.20	19.68	20.45	21.35
6	Nuclear Portion of Production-Weighted Average Rate (\$/MWh) (line 2 x line 4 / line 5)		42.78	42.48	43.86	45.98	46.85	47.63
8	Total Production-Weighted Average Rate (\$/MWh) (line 6 + line 7)		60.97	62.50	64.06	65.66	67.30	68.98
	Percentage Change in Hydroelectric Rate Including Rider	4		-3.2%	1.4%	-1.8%	1.5%	1.5%
	Percentage Change in Nuclear Rate Including Rider	4		9.6%	2.8%	4.2%	4.0%	4.3%
11	Percentage Change in Overall Payment Amount			2.5%	2.5%	2.5%	2.5%	2.5%

Notes:

1 Col. (a) is average Regulated Hydroelectric payment amount including riders for Jul-Dec 2015 (production-weighted average of previously and newly regulated hydroelectric base rates and riders in effect at the end of 2015). See Ex. I1-2-1 Table 1(a). Col. (b) - (f) is proposed EB-2016-0152 payment amount plus riders from Ex. I1-2-1 Table 1 line 10.

2 Col. (a) is base rate of \$59.29/MVh (EB-2013-0321 Payment Amounts Order, Appendix D, Table 1, line 3) plus nuclear rider 2016 from EB-2014-0370 (\$10.84/MVh) plus Nuclear Interim Period Shortfall Rider from EB-2014-0370 (\$2.17/MVh).

Col. (b) - (f) is calculated as the nuclear payment amount requred to each a 2.5% increase in line 11 - percentage change in overall payment amount 3 Regulated Hydroelectric production is the 2014 and 2015 average OEB approved hydroelectric production per EB-2013-0321 Decision and Order page 9

Nuclear 2016 production is the 2014 and 2015 average OEB approved per EB-2013-0321 Decision and Order page 39. 2017-2021 from EB-2016-0152 Ex. E2-1-2_Table 1

4 Rider included per Ex. H1-2-1 Tables 1 and 2 only - no assumptions made for future riders in the 2019-2021 period

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Table 3

Table 3 Payment Amounts and Riders - Nuclear (Updated Ex.I1-3-1 Table 1) Test Period January 1, 2017 to December 31, 2021

Line						
No.	Description	2017	2018	2019	2020	2021
		(a)	(b)	(c)	(d)	(e)
	PAYMENT AMOUNT:					
1	Revenue Requirement Before Stretch Factor ¹ (\$M)	3,161.4	3,190.7	3,283.4	3,798.8	3,418.4
· ·		0,10111	0,10011	0,20011	0,10010	0,11011
2	Nuclear Base OM&A ²	1,218.9	1,232.0	1,271.8	1,284.8	1,297.4
3	Nuclear Allocated Corporate Costs ³	448.9	437.2	442.7	445.0	454.1
4	Total OM&A Applicable for Stretch Factor ⁴	1,667.8	1,669.2	1,714.6	1,729.8	1,751.5
5	Nuclear Stretch Factor (Ex. A1-3-2, Chart 9)		0.3%	0.3%	0.3%	0.3%
6	Cummulative Nuclear Stretch Dollars ((line 4 x line 5) + Prior Year)	-	5.0	10.2	15.3	20.6
7	Devenue Demuinement Net of Stratch Feater (CM) (line 4 line C)	3,161.4	3,185.7	3,273.2	3,783.5	3,397.8
	Revenue Requirement Net of Stretch Factor (\$M) (line 1 - line 6)	3,101.4	3,105.7	3,273.2	3,763.5	3,397.0
8	Forecast Production ⁵ (TWh)	38.1	38.5	39.0	37.4	35.4
-						
9	Illustrative Unsmoothed Payment Amount (\$/MWh) (line 7/line 8)	83.0	82.8	83.9	101.3	96.0
10	Our fammer Original the Design of American (American)	70.00	70.00	04.02	00.04	00.00
10	Customer Smoothing Payment Amount (\$/MWh) ⁶	76.39	78.60	84.83	88.21	92.02
	DEFERRAL AND VARIANCE ACCOUNT PAYMENT RIDER:					
	DEI EINAL AND VANANCE ACCOUNT FATMENT RIDER.					
11	Payment Rider ⁷ (\$/MWh)	2.85	2.85			
		2.00	2.00			
12	Total of Nuclear Payment Amount Plus Riders (line 11 + line 12)	79.24	81 45	84 83	88 21	92.02
12	Total of Nuclear Payment Amount Plus Riders (line 11 + line 12)	79.24	81.45	84.83	88.21	

Notes:

1 From Ex. I1-1-1 Table 2, line 24.

2 Ex. F2-1-1 Table 1 (updated for changes to CNSC requirements and ONFA waste related OM&A, per N1-1-1)

3 Ex. F2-1-1 Table 1

4 Please see section 3.2 of Ex. A1-3-2

From Ex. E2-1-1 Table 1, line 3, cols. (e) through (i).
Nuclear payment amount required to arrive at a 2.5% increase in the weighted average payment amount (see N3-1-1 Table 2)
From Ex. H1-2-1 Table 2, line 18, col (g)

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Ontario Energy Board Act, 1998 Loi de 1998 sur la Commission de l'énergie de l'Ontario

ONTARIO REGULATION 53/05

PAYMENTS UNDER SECTION 78.1 OF THE ACT

Consolidation Period: From March 2, 2017 to the e-Laws currency date.

Last amendment: O. Reg. 57/17.

This Regulation is made in English only.

Definition

0.1 (1) In this Regulation,

- "approved reference plan" means a reference plan, as defined in the Ontario Nuclear Funds Agreement, that has been approved by Her Majesty the Queen in right of Ontario in accordance with that agreement;
- "calculation period" means each period for which the Board determines the approved revenue requirements under subparagraph 12 ii of subsection 6 (2) together with the year immediately prior to that period;
- "Darlington Refurbishment Project" means the work undertaken by Ontario Power Generation Inc. in respect of the refurbishment, in whole or in part, of some or all of the generating units of the Darlington Nuclear Generating Station;
- "deferral period" means the period beginning on January 1, 2017, and ending when the Darlington Refurbishment Project ends;
- "hydroelectric facilities" means the hydroelectric generation facilities prescribed in paragraphs 1, 2 and 6 of section 2;
- "nuclear decommissioning liability" means the liability of Ontario Power Generation Inc. for decommissioning its nuclear generation facilities and the management of its nuclear waste and used fuel;
- "nuclear facilities" means the nuclear generation facilities prescribed in paragraphs 3, 4 and 5 of section 2;
- "Ontario Nuclear Funds Agreement" means the agreement entered into as of April 1, 1999 by Her Majesty the Queen in right of Ontario, Ontario Power Generation Inc. and certain subsidiaries of Ontario Power Generation Inc., including any amendments to the agreement.
- "OPG weighted average payment amount" for a year means the total production-weighted average payment amount that is used in the determination of the payments made under section 78.1 of the Act with respect to the generation facilities prescribed in section 2 of this Regulation, calculated according to the formula:

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(((NPA + NPR) × NPF) + (HPA + HPR) × HPF) / (NPF + HPF)

where,

NPA is the Board-approved payment amount for the year in respect of the nuclear facilities,

NPR is the Board-approved payment amount rider for the year in respect of the recovery of balances recorded in the deferral accounts and variance accounts established for the nuclear facilities, excluding the deferral account established under subsection 5.5 (1),

NPF is the Board-approved production forecast for the nuclear facilities for the year,

HPA is the Board-approved payment amount for the year, or the expected payment amount resulting from a Boardapproved rate-setting formula, as applicable, in respect of the hydroelectric facilities,

HPR is the Board-approved payment amount rider for the year in respect of the recovery of balances recorded in the deferral accounts and variance accounts established for the hydroelectric facilities, and

HPF is the Board-approved production forecast for the hydroelectric facilities for the year.

O. Reg. 23/07, s. 1; O. Reg. 353/15, s. 1; O. Reg. 57/17, s. 1.

(2) For the purposes of this Regulation, the output of a generation facility shall be measured at the facility's delivery points, as determined in accordance with the market rules. O. Reg. 312/13. s. 1.

Prescribed generator

1. Ontario Power Generation Inc. is prescribed as a generator for the purposes of section 78.1 of the Act. O. Reg. 53/05, s. 1.

Prescribed generation facilities

2. The following generation facilities of Ontario Power Generation Inc. are prescribed for the purposes of section 78.1 of the Act:

- 1. The following hydroelectric generating stations located in The Regional Municipality of Niagara:
 - i. Sir Adam Beck I.
 - ii. Sir Adam Beck II.
 - iii. Sir Adam Beck Pump Generating Station.
 - iv. De Cew Falls I.
 - v. De Cew Falls II.
- 2. The R. H. Saunders hydroelectric generating station on the St. Lawrence River.
- 3. Pickering A Nuclear Generating Station.
- 4. Pickering B Nuclear Generating Station.
- 5. Darlington Nuclear Generating Station.
- As of July 1, 2014, the generation facilities of Ontario Power Generation Inc. that are set out in the Schedule. O. Reg. 53/05, s. 2; O. Reg. 23/07, s. 2; O. Reg. 312/13, s. 2.

Prescribed date for s. 78.1 (2) of the Act

3. April 1, 2008 is prescribed for the purposes of subsection 78.1 (2) of the Act. O. Reg. 53/05, s. 3.

O. Reg. 53/05: PAYMENTS UNDER SECTION 78.1 OF THE ACT

4. REVOKED: O. Reg. 312/13, s. 3.

Deferral and variance accounts

5. (1) Ontario Power Generation Inc. shall establish a variance account in connection with section 78.1 of the Act that records capital and non-capital costs incurred and revenues earned or foregone on or after April 1, 2005 due to deviations from the forecasts as set out in the document titled "Forecast Information (as of Q3/2004) for Facilities Prescribed under Ontario Regulation 53/05" posted and available on the Ontario Energy Board website, that are associated with,

- (a) differences in hydroelectric electricity production due to differences between forecast and actual water conditions;
- (b) unforeseen changes to nuclear regulatory requirements or unforeseen technological changes which directly affect the nuclear generation facilities, excluding revenue requirement impacts described in subsections 5.1 (1) and 5.2 (1);
- (c) changes to revenues for ancillary services from the generation facilities prescribed under section 2;
- (d) acts of God, including severe weather events; and
- (e) transmission outages and transmission restrictions that are not otherwise compensated for through congestion management settlement credits under the market rules. O. Reg. 23/07, s. 3.

(2) The calculation of revenues earned or foregone due to changes in electricity production associated with clauses (1) (a), (b),(d) and (e) shall be based on the following prices:

- 1. \$33.00 per megawatt hour from hydroelectric generation facilities prescribed in paragraphs 1 and 2 of section 2.
- 2. \$49.50 per megawatt hour from nuclear generation facilities prescribed in paragraphs 3, 4 and 5 of section 2. O. Reg. 23/07, s. 3.

(3) Ontario Power Generation Inc. shall record simple interest on the monthly opening balance of the account at an annual rate of 6 per cent applied to the monthly opening balance in the account, compounded annually. O. Reg. 23/07, s. 3.

(4) Ontario Power Generation Inc. shall establish a deferral account in connection with section 78.1 of the Act that records non-capital costs incurred on or after January 1, 2005 that are associated with the planned return to service of all units at the Pickering A Nuclear Generating Station, including those units which the board of directors of Ontario Power Generation Inc. has determined should be placed in safe storage. O. Reg. 23/07, s. 3.

(5) For the purposes of subsection (4), the non-capital costs include, but are not restricted to,

- (a) construction costs, assessment costs, pre-engineering costs, project completion costs and demobilization costs; and
- (b) interest costs, recorded as simple interest on the monthly opening balance of the account at an annual rate of 6 per cent applied to the monthly opening balance in the account, compounded annually. O. Reg. 23/07, s. 3.

5.1 REVOKED: O. Reg. 312/13, s. 3.

Nuclear liability deferral account

5.2 (1) Ontario Power Generation Inc. shall establish a deferral account in connection with section 78.1 of the Act that records, on and after the effective date of the Board's first order under 78.1 of the Act, the revenue requirement impact of changes in its total nuclear decommissioning liability between,

- (a) the liability arising from the approved reference plan incorporated into the Board's most recent order under section 78.1 of the Act; and
- (b) the liability arising from the current approved reference plan. O. Reg. 23/07, s. 3.

(2) Ontario Power Generation Inc. shall record interest on the balance of the account as the Board may direct. O. Reg. 23/07 Attachment 1 s. 3.

5.3 REVOKED: O. Reg. 312/13, s. 3.

Nuclear development variance account

5.4 (1) Ontario Power Generation Inc. shall establish a variance account in connection with section 78.1 of the Act that records, on and after the effective date of the Board's first order under section 78.1 of the Act, differences between actual non-capital costs incurred and firm financial commitments made and the amount included in payments made under that section for planning and preparation for the development of proposed new nuclear generation facilities. O. Reg. 27/08, s. 1.

(2) Ontario Power Generation Inc. shall record interest on the balance of the account as the Board may direct. O. Reg. 27/08, s. 1.

Darlington refurbishment rate smoothing deferral account

5.5 (1) Ontario Power Generation Inc. shall establish a deferral account in connection with section 78.1 of the Act that records, on and after the commencement of the deferral period, the difference between,

- (a) the revenue requirement amount approved by the Board that, but for subparagraph 12 i of subsection 6 (2) of this Regulation, would have been used in connection with determining the payments to be made under section 78.1 of the Act each year during the deferral period in respect of the nuclear facilities; and
- (b) the portion of the revenue requirement amount referred to in clause (a) that is used in connection with determining the payments made under section 78.1 of the Act, after determining, under subparagraph 12 i of subsection 6 (2) of this Regulation, the amount of the revenue requirement to be deferred for that year in respect of the nuclear facilities.
 O. Reg. 353/15, s. 2.

(2) Ontario Power Generation Inc. shall record interest on the balance of the account at a long-term debt rate reflecting Ontario Power Generation Inc.'s cost of long-term borrowing that is determined or approved by the Board from time to time, compounded annually. O. Reg. 353/15, s. 2.

Rules governing determination of payment amounts by Board

6. (1) Subject to subsection (2), the Board may establish the form, methodology, assumptions and calculations used in making an order that determines payment amounts for the purpose of section 78.1 of the Act. O. Reg. 53/05, s. 6 (1).

(2) The following rules apply to the making of an order by the Board that determines payment amounts for the purpose of section 78.1 of the Act:

- 1. The Board shall ensure that Ontario Power Generation Inc. recovers the balance recorded in the variance account established under subsection 5 (1) over a period not to exceed three years, to the extent that the Board is satisfied that,
 - i. the revenues recorded in the account were earned or foregone and the costs were prudently incurred, and
 - ii. the revenues and costs are accurately recorded in the account.
- 2. In setting payment amounts for the assets prescribed under section 2, the Board shall not adopt any methodologies, assumptions or calculations that are based upon the contracting for all or any portion of the output of those assets.

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- 3. The Board shall ensure that Ontario Power Generation Inc. recovers the balance recorded in the deferral account Attachment established under subsection 5 (4). The Board shall authorize recovery of the balance on a straight line basis over a period not to exceed 15 years.
- 4. The Board shall ensure that Ontario Power Generation Inc. recovers capital and non-capital costs and firm financial commitments incurred in respect of the Darlington Refurbishment Project or incurred to increase the output of, refurbish or add operating capacity to a generation facility referred to in section 2, including, but not limited to, assessment costs and pre-engineering costs and commitments,
 - i. if the costs and financial commitments were within the project budgets approved for that purpose by the board of directors of Ontario Power Generation Inc. before the making of the Board's first order under section 78.1 of the Act in respect of Ontario Power Generation Inc., or
 - ii. if the costs and financial commitments were not approved by the board of directors of Ontario Power Generation Inc.
 before the making of the Board's first order under section 78.1 of the Act in respect of Ontario Power Generation
 Inc., if the Board is satisfied that the costs were prudently incurred and that the financial commitments were
 prudently made.
- 4.1 The Board shall ensure that Ontario Power Generation Inc. recovers the costs incurred and firm financial commitments made in the course of planning and preparation for the development of proposed new nuclear generation facilities, to the extent the Board is satisfied that,
 - i. the costs were prudently incurred, and
 - ii. the financial commitments were prudently made.
- 5. In making its first order under section 78.1 of the Act in respect of Ontario Power Generation Inc., the Board shall accept the amounts for the following matters as set out in Ontario Power Generation Inc.'s most recently audited financial statements that were approved by the board of directors of Ontario Power Generation Inc. before the effective date of that order:
 - i. Ontario Power Generation Inc.'s assets and liabilities, other than the variance account referred to in subsection 5 (1), which shall be determined in accordance with paragraph 1.
 - ii. Ontario Power Generation Inc.'s revenues earned with respect to any lease of the Bruce Nuclear Generating Stations.
 - iii. Ontario Power Generation Inc.'s costs with respect to the Bruce Nuclear Generating Stations.
- 6. Without limiting the generality of paragraph 5, that paragraph applies to values relating to,
 - i. capital cost allowances,
 - ii. the revenue requirement impact of accounting and tax policy decisions, and
 - iii. capital and non-capital costs and firm financial commitments to increase the output of, refurbish or add operating capacity to a generation facility referred to in section 2.
- 7. The Board shall ensure that the balance recorded in the deferral account established under subsection 5.2 (1) is

recovered on a straight line basis over a period not to exceed three years, to the extent that the Board is satisfied that Attachment 1 revenue requirement impacts are accurately recorded in the account, based on the following items, as reflected in the audited financial statements approved by the board of directors of Ontario Power Generation Inc.,

- i. return on rate base,
- ii. depreciation expense,
- iii. income and capital taxes, and
- iv. fuel expense.
- 7.1 The Board shall ensure the balance recorded in the variance account established under subsection 5.4 (1) is recovered on a straight line basis over a period not to exceed three years, to the extent the Board is satisfied that,
 - i. the costs were prudently incurred, and
 - ii. the financial commitments were prudently made.
- 8. The Board shall ensure that Ontario Power Generation Inc. recovers the revenue requirement impact of its nuclear decommissioning liability arising from the current approved reference plan.
- 9. The Board shall ensure that Ontario Power Generation Inc. recovers all the costs it incurs with respect to the Bruce Nuclear Generating Stations.
- 10. If Ontario Power Generation Inc.'s revenues earned with respect to any lease of the Bruce Nuclear Generating Stations exceed the costs Ontario Power Generation Inc. incurs with respect to those Stations, the excess shall be applied to reduce the amount of the payments required under subsection 78.1 (1) of the Act with respect to output from the nuclear generation facilities referred to in paragraphs 3, 4 and 5 of section 2.
- 11. In making its first order under section 78.1 of the Act in respect of Ontario Power Generation Inc. that is effective on or after July 1, 2014, the following rules apply:
 - i. The order shall provide for the payment of amounts with respect to output that is generated at a generation facility referred to in paragraph 6 of section 2 during the period from July 1, 2014 to the day before the effective date of the order.
 - ii. The Board shall accept the values for the assets and liabilities of the generation facilities referred to in paragraph 6 of section 2 as set out in Ontario Power Generation Inc.'s most recently audited financial statements that were approved by the board of directors before the making of that order. This includes values relating to the income tax effects of timing differences and the revenue requirement impact of accounting and tax policy decisions reflected in those financial statements.
- 12. For the purposes of section 78.1 of the Act, in setting payment amounts for the nuclear facilities during the deferral period,
 - i. the Board shall determine the portion of the Board-approved revenue requirement for the nuclear facilities for each year that is to be recorded in the deferral account established under subsection 5.5 (1), with a view to making more stable the year-over-year changes in the OPG weighted average payment amount over each calculation period,

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- Page 7 of 8 Filed: 2017-03-08 EB-2016-0152 Exhibit N3, Tab 1 ii. the Board shall determine the approved revenue requirements referred to in subsection 5.5 (1) and the amount of the Attachment 1 approved revenue requirements to be deferred under subparagraph i on a five-year basis for the first 10 years of the deferral period and, thereafter, on such periodic basis as the Board determines,
- iii. for greater certainty, the Board's determination of Ontario Power Generation Inc.'s approved revenue requirement for the nuclear facilities shall not be restricted by the yearly changes in payment amounts in subparagraph i,
- iv. the Board shall ensure that Ontario Power Generation Inc. recovers the balance recorded in the deferral account established under subsection 5.5 (1), and the Board shall authorize recovery of the balance on a straight line basis over a period not to exceed 10 years commencing at the end of the deferral period, and
- v. the Board shall accept the need for the Darlington Refurbishment Project in light of the Plan of the Ministry of Energy known as the 2013 Long-Term Energy Plan and the related policy of the Minister endorsing the need for nuclear refurbishment. O. Reg. 23/07, s. 4; O. Reg. 27/08, s. 2; O. Reg. 312/13, s. 4; O. Reg. 353/15, s. 3; O. Reg. 57/17, s. 2.
- 7. OMITTED (PROVIDES FOR COMING INTO FORCE OF PROVISIONS OF THIS REGULATION). O. Reg. 53/05, s. 7.

SCHEDULE

- 1. Abitibi Canyon.
- 2. Alexander.
- 3. Aquasabon.
- 4. Arnprior.
- 5. Auburn.
- 6. Barrett Chute.
- 7. Big Chute.
- 8. Big Eddy.
- 9. Bingham Chute.
- 10. Calabogie.
- 11. Cameron Falls.
- 12. Caribou Falls.
- 13. Chats Falls.
- 14. Chenaux.
- 15. Coniston.
- 16. Crystal Falls.
- 17. Des Joachims.
- 18. Elliott Chute.
- 19. Eugenia Falls.
- 20. Frankford.
- 21. Hagues Reach.

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- 22. Hanna Chute.
- 23. High Falls.
- 24. Indian Chute.
- 25. Kakabeka Falls.
- 26. Lakefield.
- 27. Lower Notch.
- 28. Manitou Falls.
- 29. Matabitchuan.
- 30. McVittie.
- 31. Merrickville.
- 32. Meyersberg.
- 33. Mountain Chute.
- 34. Nipissing.
- 35. Otter Rapid.
- 36. Otto Holden.
- 37. Pine Portage.
- 38. Ragged Rapids.
- 39. Ranney Falls.
- 40. Seymour.
- 41. Sidney.
- 42. Sills Island.
- 43. Silver Falls.
- 44. South Falls.
- 45. Stewartville.
- 46. Stinson.
- 47. Trethewey Falls.
- 48. Whitedog Falls.

O. Reg. 312/13, s. 5.

ATTACHMENT 2

UPDATES TO INTERROGATORIES AND TECHNICAL CONFERENCE UNDERTAKINGS

2 3

1

4 **1.0 OVERVIEW**

5 During the discovery process, a number of stakeholders requested additional information with 6 respect to OPG's 11% nuclear payment amount smoothing proposal. OPG reviewed its 7 responses in light of the amended O. Reg. 53/05 (the "Regulation") and the transition to 8 smoothing based on OPG's weighted average payment amounts ("WAPA"). For applicable 9 responses seeking a quantitative analysis of the financial impact of OPG's 11% nuclear 10 payment amount smoothing proposal, this evidence either explains the impact of changing to 11 smoothing based on WAPA, or provides an explanation of why an update is not provided.

12

Where indicated below, OPG has reflected the financial impacts described in Ex. N1-1-1 and Ex. N2-1-1 in the updated responses provided in this evidence. Some questions required OPG to create a hypothetical revenue requirement to respond to a scenario posed. In updating these questions, OPG has used the same hypothetical revenue requirement created for the original response, with payment amounts and bill impacts reflecting smoothing based on WAPA.

19

20 2.0 INTERROGATORIES

21

22 L-1.3-1 Staff-5

Scenario 1 is replaced by the 2.5% annual change in the WAPA proposed in Ex. N3-1-1.
The average residential monthly customer bill increase is \$0.65 per year over the 2017 to
2021 period. This bill impact is provided in Ex. N3-1-1 Table 1, line 4 and Ex. N3-1-1
Attachment 1, Table 1.

27

Scenario 2 is replaced by a 3.98% annual change in the WAPA that would recover the entire proposed nuclear revenue requirement for the 2017 to 2021 period, updated for Ex. N1-1-1 and Ex. N2-1-1, as contemplated in Ex. A1-3-3 p.2. The resulting average residential monthly customer bill increase would be \$1.06 per year. The annual residential customer bill 1 impact is provided in Ex. N3-1-1 Attachment 1, Table 2. The calculations to derive this bill

2 impact are provided in Ex. N3-1-1 Attachment 1, Tables 2-4.

3

4 L-1.3-5 CCC-010(a)

5 The two alternatives identified in the interrogatory have been superseded. The revised 6 alternatives are provided as Scenario 1 and Scenario 2 in the revised response to Ex. L-1.3-1 7 Staff-005 above. A revised Chart 1 is provided as Ex. N3-1-1 Attachment 1, Table 5.

8

9 L-11.6-1 Staff 263:

10 This update utilizes the same revenue requirement inputs as contemplated in the original 11 interrogatory response and uses the same proposed annual change in the WAPA over the 12 deferral period.

13

No change is required to Chart 1, however Chart 2 has been updated for OPG's revised rate smoothing proposal that increases WAPA by 2.5% per year. For convenience, the originally filed Chart 1 has been provided in Ex. N3-1-1 Attachment 1 Table 6, and an updated Chart 2

17 is provided as Ex. N3-1-1 Attachment 1, Table 7.

18

19 L-11.6-1 Staff 265 (b)

The charts provided on pages 1 and 2 of OPG's original interrogatory response have been updated to reflect the revised smoothing proposal in Ex. N3-1-1 and are included as Ex. N3-1-1 Attachment 1, Tables 8 and 9. The values shown reflect the updates to the 2017-2021 revenue requirements per Ex. N1-1-1 and Ex. N2-1-1.

24

25 L-11.6-2 AMPCO 158 and L-11.6-8 GEC 62 Attachment 1

These responses are based on customer bill smoothing. The amended Regulation requires nuclear rate smoothing based on WAPA. These responses cannot be meaningfully updated under the amended Regulation.

- 29
- 30

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Attachment 2 Page 3 of 4

1 L-1.3-8 GEC-064:

Ex. L-1.3-8 GEC-064, Attachment 1 from OPG's response to this interrogatory filed on
February 22, 2017 has been updated to reflect the revised rate smoothing proposal in Ex.
N3-1-1, using the same revenue requirement inputs contemplated in the originally filed
response. The updated information is provided as Ex. N3-1-1 Attachment 1, Table 10.

6

7 L-1.3-8 GEC-065:

Tables 1-3 from Attachment 1 from OPG's original response to this interrogatory have been updated to reflect the revised rate smoothing proposal per Ex. N3-1-1, using the same revenue requirement inputs contemplated in the originally filed response. The revised rate smoothing proposal affects Scenarios 1, 3 and 5 outlined in the interrogatory response. The updated tables are provided as Ex. N3-1-1 Attachment 1, Tables 11-13.

13

14 **L-11.6-7 ED-024**:

An updated Chart 1 which provides the smoothed nuclear base rates from 2016 to 2036 consistent with OPG's revised rate smoothing proposal per Ex. N3-1-1 and updated 2017-2021 revenue requirement information in Ex. N1-1-1 and Ex. N2-1-1 is provided as Ex. N3-1-1 Attachment 1, Table 14.

19

20 **L-9.7-15 SEC-093**:

An update to the chart provided on page 1 of the interrogatory response consistent with OPG's revised rate smoothing proposal and updated 2017-2021 revenue requirement information in Ex. N1-1-1 and Ex. N2-1-1 is provided as Ex. N3-1-1 Attachment 1, Table 15.

24

25 **L-1.3-15 SEC-006**:

An updated SEC-6 Attachment 1 is provided as Ex. N3-1-1 Attachment 1, Table 16, including
the smoothed nuclear payment amounts and nuclear payment riders per Ex. N3-1-1 Table 3
lines 10 and 11, respectively.

- 29
- 30

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Attachment 2 Page 4 of 4

1 L-11.6-20 VECC-051(a):

An amended Chart 4 to reflect OPG's current rate smoothing proposal is provided as Ex. N31-1 Attachment 1, Table 17, including the impact of revenue requirement updates in Ex. N11-1 and Ex. N2-1-1.

5

6 L-11.6-2 AMPCO-158:

An amended Attachment 1 reflecting OPG's current rate smoothing proposal is provided as
Ex. N3-1-1 Attachment 1, Table 18.

9

10 3.0 UNDERTAKINGS

11

12 **<u>JT2.24</u>**:

The undertaking explored an option to address the 2017 reduction in the overall weighted average payment amounts by keeping payments flat in 2017. The amended Regulation is similarly focussed on the weighted average payment amount with the stated objective of making the year over year weighted average payment amounts more stable. OPG's proposal addresses the intent of the undertaking.

18

19 <u>JT3.11</u>:

Ex. N3-1-1 Attachment 1, Table 19 updates Ex. JT 3.11 Attachment 1 by providing the annual net revenue deferred/recovered, interest during the period and period-end Rate Smoothing Deferral Account balance, based on nuclear payment amount smoothing using WAPA and indicative annual revenue requirements and production values. For the 2017 to 2021 period, these revenue requirements reflect updates in Ex. N1-1-1 and Ex. N2-1-1.

Table 1Updated L-1.3-1 Staff-005 Chart 1Derivation of \$0.65 Average Customer Bill Impact

	2017	2018	2019	2020	2021	Average
Typical Bill Impact (\$/Month)	0.62	0.64	0.66	0.66	0.66	0.65

Numbers may not add due to rounding.

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Attachment 2 Table 2

Table 2

Updated L-1.3-1 Staff-005 Table 1 Annualized Residential Consumer Impact of Illustrative Rates <u>EB-2013-0321 / EB-2014-0370 to EB-2016-0152</u>

Line		2017	2018	2019	2020	2021	
No.	Description	Amount	Amount	Amount	Amount	Amount	Average
		(a)	(b)	(C)	(d)	(e)	(e)
1	Typical Consumption ¹ (kWh/Month)	789	789	789	789	789	789
2	Typical Usage of OPG Generation (kWh/Month) (line 1 x line 11)	408	410	413	403	392	405
3	Typical Bill ¹ (\$/Month)	150.58	150.58	150.58	150.58	150.58	150.58
4	Typical Bill Impact (\$/Month) (line 2 x line 8 / 1000)	0.99	1.03	1.08	1.10	1.11	1.06
5	Typical Bill Impact (%) (line 4 / line 3)	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
6	Prior Year weighted average rate with proposed payment amounts and riders ^{2,3} (\$/MWh)	60.97	63.40	65.92	68.54	71.26	66.02
7	Current Year weighted average rate with proposed payment amounts and riders ^{2,3} (\$/MWh)	63.40	65.92	68.54	71.26	74.10	68.64
8	Change in OPG weighted average rate (\$/MWh) (line 7 - line 6)	2.42	2.52	2.62	2.73	2.83	2.62
9	Total OPG Regulated Production ⁴ (TWh)	71.1	71.4	72.0	70.3	68.4	70.6
10	Forecast of 2017 Provincial Demand ⁵ (TWh)	137.6	137.6	137.6	137.6	137.6	137.6
11	OPG Proportion of Consumer Usage (line 9 / line 10)	51.7%	51.9%	52.3%	51.1%	49.7%	51.3%

Notes:

1 Typical monthly consumption (750 kWh) and typical monthly bill are based on the OEB "Bill Calculator" for estimating monthly electricity bills (using Time of Use pricing), available at: http://www.ontarioenergyboard.ca/OEB/Consumers/Electricity/Your+Electricity+Utility Typical Consumption includes line losses (Assumed loss factor of 1.0525)

2 From Ex. N3-1-1 Attch 1 Table 3

3 Uses Nuclear smoothed rate per Ex. N3-1-1 Table 3, IRM Hydro rate (illustrative after 2017) per Ex. I1-2-1 Table 1

4 From Ex. N3-1-1 Attch 1 Table 3, line 5.

5 Based on forecast demand for 2017 (137.6 TWh) from Table 3.1 of IESO 18-Month Outlook Update for April 2016 to September 2017, published March 22, 2016.

Numbers may not add due to rounding.

Line No.	Description	Note	2016 per EB-2013- Payment Amo Order plu EB-2014-0370
			(a)
1	Regulated Hydroelectric Rate Including Rider (\$/MWh)	1	
	Nuclear Rate Including Rider (\$/MWh)	2	
3	Regulated Hydroelectric Production (TWh)	3	
4	Forecast Nuclear Production (TWh)	3	
5	Total Production (TWh) (line 3 + line 4)		
	Regulated Hydroelectric Portion of Production-Weighted Average Rate (\$/MWh) (line 1 x line 3 / line 5)		
n	Nuclear Portion of Production-Weighted Average Rate (\$/MWh) (line 2 x line 4 / line 5)		
8	Total Production-Weighted Average Rate (\$/MWh) (line 6 + line 7)		
9	Percentage Change in Hydroelectric Rate Including Rider	4	
10	Percentage Change in Nuclear Rate Including Rider	4	
11	Percentage Change in Overall Payment Amount		

Notes:

1 Col. (a) is average Regulated Hydroelectric payment amount including riders for Jul-Dec 2015 (production-weighted average of previously and newly regulated hydroelectric base rates and riders in effect at the end of 2015). See Ex. I1-2-1 Table 1(a). Col. (b) - (f) is proposed EB-2016-0152 payment amount amount amount amount amount amount amount amount amount including riders for Jul-Dec 2015 (production-weighted average of previously and newly regulated hydroelectric base rates and riders in effect at the end of 2015). See Ex. I1-2-1 Table 1(a). Col. (b) - (f) is proposed EB-2016-0152 payment amount amount amount amount including riders for Jul-Dec 2015 (production-weighted average of previously and newly regulated hydroelectric base rates and riders in effect at the end of 2015). plus riders from Ex. I1-2-1 Table 1 line 10.

2 Col. (a) is base rate of \$59.29/MWh (EB-2013-0321 Payment Amounts Order, Appendix D, Table 1, line 3) plus nuclear rider 2016 from EB-2014-0370 (\$10.84/MWh) plus Nuclear Interim Period Shortfall Rider from EB-2014-0370 (\$2.17/MWh). Col. (b) - (f) is calculated as the nuclear payment amount requred to each a 2.5% increase in line 11 - percentage change in overall payment amount 3 Regulated Hydroelectric production is the 2014 and 2015 average OEB approved hydroelectric production per EB-2013-0321 Decision and Order page 9

Nuclear 2016 production is the 2014 and 2015 average OEB approved per EB-2013-0321 Decision and Order pages 39-40. 2017-2021 from EB-2016-0152 Ex. E2-1-2_Table 1

4 Rider included per Ex. H1-2-1 Tables 1 and 2 only - no assumptions made for future riders in the 2019-2021 period

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1 Schedule 1 Attachment 2 Table 3

Table 3 Updated L-1.3-1 Staff-005 Table 2 Computation of Percent Change in Illustrative Payment Amounts EB-2013-0321 / EB-2014-0370 to EB-2016-0152

-0321 ounts Is Riders	2017 per EB-2016-0152 Proposed Payment Amount plus EB-2016-0152 Riders	2018 per EB-2016-0152 Proposed Payment Amount plus EB-2016-0152 Riders	2019 per EB-2016-0152 Proposed Payment Amount	2020 per EB-2016-0152 Proposed Payment Amount	2021 per EB-2016-0152 Proposed Payment Amount
	(b)	(C)	(d)	(e)	(f)
44.55	43.15	43.77	42.97	43.61	44.27
72.30	80.92	84.90	90.14	95.67	101.90
33.0	33.0	33.0	33.0	33.0	33.0
47.8	38.1	38.5	39.0	37.4	35.4
80.8	71.1	71.4	72.0	70.3	68.4
18.19	20.02	20.20	19.68	20.45	21.35
42.78	43.38	45.71	48.86	50.81	52.74
60.97	63.40	65.92	68.54	71.26	74.10
	-3.2%	1.4%	-1.8%	1.5%	1.5%
	11.9%	4.9%	6.2%	6.1%	6.5%
	4.0%	4.0%	4.0%	4.0%	4.0%





Table 4Updated L-1.3-1 Staff-005 Table 3Annualized Residential Customer Impact of Illustrative RatesEB-2013-0321 / EB-2014-0370 to EB-2016-0152

Line						
No.	Description	2017	2018	2019	2020	2021
		(a)	(b)	(C)	(d)	(e)
	PAYMENT AMOUNT:					
1	Revenue Requirement Before Stretch Factor ¹ (\$M)	3,161.4	3,190.7	3,283.4	3,798.8	3,418.4
2	Nuclear Base OM&A ²	1,218.9	1,232.0	1,271.8	1,284.8	1,297.4
3	Nuclear Allocated Corporate Costs ³	448.9	437.2	442.7	445.0	454.1
4	Total OM&A Applicable for Stretch Factor ⁴	1,667.8	1,669.2	1,714.6	1,729.8	1,751.5
5	Nuclear Stretch Factor (Ex. A1-3-2, Chart 9)		0.3%	0.3%	0.3%	0.3%
6	Cummulative Nuclear Stretch Dollars ((line 4 x line 5) + Prior Year)	-	5.0	10.2	15.3	20.6
7	Revenue Requirement Net of Stretch Factor (\$M) (line 1 - line 6)	3,161.4	3,185.7	3,273.2	3,783.5	3,397.8
8	Forecast Production ⁵ (TWh)	38.1	38.5	39.0	37.4	35.4
9	Illustrative Unsmoothed Payment Amount (\$/MWh) (line 7/line 8)	83.0	82.8	83.9	101.3	96.0
10	Illustrative Constant WAPA Rate Increse Without Deferral (\$/MWh) ⁶	78.07	82.05	90.14	95.67	101.90
	DEFERRAL AND VARIANCE ACCOUNT PAYMENT RIDER:					
11	Payment Rider ⁷ (\$/MWh)	2.85	2.85			
12	Total of Nuclear Payment Amount Plus Riders (\$/MWh) (line 11 + line 12)	80.92	84.90	90.14	95.67	101.90

Notes:

1 From Ex. N3-1-1 Table 3, line 1.

2 Ex. F2-1-1 Table 1 (updated for changes to CNSC requirements and ONFA waste related OM&A, per N1-1-1)

3 Ex. F2-1-1 Table 1

- 4 Please see section 3.2 of Ex. A1-3-2
- 5 From Ex. E2-1-1 Table 1, line 3, cols. (e) through (i).
- 6 Rate required to arrive at a constant WAPA that results in net zero deferral over 2017-2021 (See N3-1-1 Attachment 1, Table 5 line 2)
- 7 From Ex. H1-2-1 Table 2, line 18, col (g)

Table 5 Updated L-1.3-5 CCC-010 Chart 1 Illustration of the Annual Deferred Revenue Requirement and the Associated Interest

Line		2017	2018	2019	2020	2021	
No.	Description	Amount	Amount	Amount	Amount	Amount	
		(a)	(b)	(c)	(d)	(e)	
1	Unsmoothed Nuclear Rate ¹ (\$/MWh)	82.98	82.81	83.87	101.28	96.03	
2	Illustrative Nuclear Smoothed Rates, Based on a Constant Rate of Change ² (\$/MWh)	78.07	82.05	90.14	95.67	101.90	
3	Forecast Nuclear Production ³ (TWh)	38.1	38.5	39.0	37.4	35.4	
4	Annual Deferred Amount (\$M)	187	29	(245)	210	(208)	
5	Interest Expense (\$M)	5	10	5	4	5	
5	Cumulative Interest (\$M)	5	14	19	23	28	

Notes:

Ex. N3-1-1 Table 3 line 9
 Reflects WAPA increase of approximately 3.98% to provide for recovery of the deferred Revenue Requirement and interest. The Rate Smoothing Deferral Account Balance is \$0 in 2021
 Ex. I1-3-1 Table 1, line 8

Numbers may not add due to rounding.

Table 6 <u>L-11.6-1 Staff-263 Chart 1 (As Filed)</u>

	2017-2021	2022-2026	2027-2031	2032-2036
Anticipated Revenue Requirement (\$BN)	16.0	15.1	17.4	17.1
Anticipated Production (TWh)	176	79	136	141
Average Rate (\$/MWh)	91	190	128	121

Numbers may not add due to rounding.

Table 7							
Updated L-11.6-1 Staff-263 Chart 2							

	No Extension	Proposal	Variance (a)-(b)
2017-2021 Average Change in WAPA	2.5%	2.5%	0.0%
2022-2026 Average Change in WAPA	7.0%	7.0%	0.0%
2027-2036 Average Change in WAPA	0.2%	(1.0)%	1.2%
Peak Account Balance (\$B)	\$5.0	\$2.9	\$2.1
Total Interest (\$BN)	\$2.6	\$1.4	\$1.2
Interest Cost / Deferred Revenue Ratio	0.6	0.5	0.2
FFO Interest Coverage > = 3 (2017-2021) & (2022-2026)	4.7 / 5.5	4.6 / 5.4	N/A
DEBT to EBITDA < = 5.5 (2017-2021) & (2022-2026)	5.8 / 5.1	5.9 / 5.2	N/A
Nuclear Payment Amount Transition Impact (\$/MWh)	(\$24.1)	(\$3.7)	(\$20.3)
Average Annual Bill Impact (2017-2021) in %	0.4%	0.4%	0.0%
Average Annual Bill Impact (2017-2021) in \$	\$0.60	\$0.65	(\$0.05)
Average Annual Bill Impact (2017-2036) in % ¹	0.4%	0.3%	0.1%
Average Annual Bill Impact (2017-2036) in \$ ¹	\$ 0.55	\$0.47	\$0.08

<u>Notes</u>

¹ Calculated assuming that hydroelectric payment amounts continue to escalate through the 2017-2036 period pursuant to the price-cap as proposed in Ex. I1-2-1 Table 1

Table 8 <u>Updated L-11.6-1 Staff-265 Page 1 Chart</u>

	2017-2021	2022-2026	2027-2031	2032-2036
Anticipated Smoothed Revenue Requirement (\$BN)	15.8	17.3	20.0	18.5
Anticipated Nuclear Production (TWh)	188	130	136	141
Average Rate (\$/MWh)	84	133	148	131

 Table 9

 Updated L-11.6-1 Staff-265 Page 2 Chart

	2017-2021	2022-2026	2027-2031	2032-2036
Net Amount Deferred and (Recovered) [including				
interest Recovery] (\$M)	1,005	774	(1,763)	(1,407)
Total Interest Added to the Balance (\$M)	116	539	611	128
Account Balance at End of Period (\$M)	1,121	2,434	1,281	0

Table 10Updated L-1.3-8 GEC-064 Attachment 1Customer Bill Impacts: DRP as Proposed vs. DRP Discontinued

	Combined Customer Bill Impacts						Customer Bill Impacts ⁴	Customer Bill Impacts ⁵		
Description	Notes	2017	2018	2019	2020	2021	2017-2021	2017-2036	2017-2036	
DRP as Proposed:										
Unsmoothed Bill Impact (\$)	1	\$ (1.24)	\$ 2.32	\$ 1.79	\$ 2.69	\$ 2.81	\$ 1.67	\$ 0.23	\$ 0.41	
Unsmoothed Bill Impact (%)	1	-0.8%	1.5%	1.2%	1.8%	1.9%	1.1%	0.2%	0.3%	
Smoothed Bill Impact (\$)	2	\$ 0.62	\$ 0.64	\$ 0.66	\$ 0.66	\$ 0.66	\$ 0.65	\$ 0.36	\$ 0.47	
Smoothed Bill Impact (%)	2	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.2%	0.3%	
DRP Discontinued										
Unsmoothed Bill Impact (\$)	3	\$ (0.79)	\$ 2.93	\$ 2.60	\$ 4.26	\$ 4.79	\$ 2.76	\$ 0.84	\$ 0.50	
Unsmoothed Bill Impact (%)	3	-0.5%	1.9%	1.7%	2.8%	3.2%	1.8%	0.6%		
Smoothed Bill Impact (\$)		\$ 0.62	\$ 0.64	\$ 0.66	\$ 0.69	\$ 0.70	\$ 0.66	\$ 0.91	\$ 0.59	
Smoothed Bill Impact (%)		-0.5%	1.9%	1.7%	2.8%	3.2%	1.8%	0.6%	0.4%	

Notes

1: Annual unsmoothed bill impacts from annual average nuclear payment amount increases of 14.5% per year over the 2017 to 2021 period to recover the updated N2 nuclear revenue requirement over the proposed production levels for the 2017 to 2021 period. Approach is consistent with approach used in in Ex. A1-3-3, Page 2, lines 10 to 13 and is not impacted by changes to the revised rate smoothing regulation.

2: Annual smoothed bill impacts supporting the N3-1-1 Update (Table 1).

3: Annual unsmoothed bill impacts from annual average nuclear payment amount increases of 18% per year over the 2017 to 2021 period to recover the revised nuclear revenue requirement over the revised production levels for the 2017 to 2021 period. Approach is consistent with approach used in footnote 1 above.

4: Reflects the nuclear year-over-year average of the annual customer bill impacts.

5: Reflects the combined year-over-year average of the annual customer bill impacts.

Table 11 Updated L-1.3-8 GEC-065 Attachment 1, Table 1 <u>Nuclear Payment Amounts (\$/MWh)</u>

Line							Average	Average	Average
No		2017	2018	2019	2020	2021	2022-2026	2027-2031	2032-2036
		(a)	(b)	(C)	(d)	(e)	(f)	(g)	(h)
1	25% Cost Over Run (Smoothed)	76.40	78.60	84.83	88.21	92.02	133.11	157.44	156.80
2	100% Cost Over Run (Smoothed)	76.40	78.60	84.83	88.21	92.02	133.11	182.75	229.98
3	25% Cost Over Run + Delay (Smoothed) ¹	76.40	78.60	84.66	89.20	89.82	142.31	157.90	161.15
4	25% Cost Over Run (Unsmoothed)	84.00	84.36	83.68	103.14	100.90	145.92	144.75	130.19
5	100% Cost Over Run (Unsmoothed)	84.82	83.92	82.16	109.38	107.72	166.47	175.44	156.52
6	25% Cost Over Run + Delay (Unsmoothed) ¹	84.00	84.36	82.94	89.51	93.14	164.87	139.88	135.14

Notes:

1 Scenario includes a one year delay in Unit 2 and extends deferral period and recovery period out by one year. Column (f) covers 2022-2027, column (g) covers 2028-2032, column (h) covers 2033-2037

Table 12 Updated L-1.3-8 GEC-065 Attachment 1, Table 2 <u>Annualized Residential Consumer Impact</u>

	2017	2018	2019	2020	2021	Average 2017-2021
	(a)	(b)	(C)	(d)	(e)	(f)
SMOOTHED						
25% cost over run						
Typical Bill Impact (\$/Month)	0.62	0.64	0.66	0.66	0.66	0.65
Typical Bill Impact (%)	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
100% cost over run						
Typical Bill Impact (\$/Month)	0.62	0.64	0.66	0.66	0.66	0.65
Typical Bill Impact (%)	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
25% cost over run + delay						
Typical Bill Impact (\$/Month)	0.62	0.64	0.66	0.65	0.70	0.65
Typical Bill Impact (%)	0.4%	0.4%	0.4%	0.4%	0.5%	0.4%
<u>UNSMOOTHED</u>						
25% cost over run						
Typical Bill Impact (\$/Month)	(1.17)	2.40	1.90	2.81	2.96	1.78
Typical Bill Impact (%)	-0.8%	1.6%	1.3%	1.9%	2.0%	1.2%
100% cost over run						
Typical Bill Impact (\$/Month)	(1.04)	2.58	2.13	3.08	3.27	2.00
Typical Bill Impact (%)	-0.7%	1.7%	1.4%	2.0%	2.2%	1.3%
25% cost over run + delay						
Typical Bill Impact (\$/Month)	(1.43)	2.07	1.51	1.99	3.45	1.52
Typical Bill Impact (%)	-1.0%	1.4%	1.0%	1.3%	2.3%	1.0%
	25% cost over run Typical Bill Impact (\$/Month) Typical Bill Impact (%) 100% cost over run Typical Bill Impact (\$/Month) Typical Bill Impact (%) 25% cost over run + delay Typical Bill Impact (\$/Month) Typical Bill Impact (%) UNSMOOTHED 25% cost over run Typical Bill Impact (\$/Month) Typical Bill Impact (%) 100% cost over run Typical Bill Impact (\$/Month) Typical Bill Impact (\$/Month) Typical Bill Impact (\$/Month) Typical Bill Impact (%)	SMOOTHED (a) 25% cost over run (a) Typical Bill Impact (\$/Month) 0.62 Typical Bill Impact (%) 0.4% 100% cost over run (b) Typical Bill Impact (\$/Month) 0.62 UNSMOOTHED (c) 25% cost over run (c) Typical Bill Impact (\$/Month) (1.17) Typical Bill Impact (\$/Month) (1.17) Typical Bill Impact (\$/Month) (1.04) Typical Bill Impact (\$/Month) (1.04) Typical Bill Impact (\$/Month) (1.04) Typical Bill Impact (\$/Month) (1.43)	(a) (b) SMOOTHED (a) 25% cost over run (b) Typical Bill Impact (\$/Month) 0.62 0.64 Typical Bill Impact (%) 0.4% 0.4% 100% cost over run (b) 0.62 0.64 Typical Bill Impact (%) 0.4% 0.4% 100% cost over run (c) 0.62 0.64 Typical Bill Impact (\$/Month) 0.62 0.64 Typical Bill Impact (%) 0.4% 0.4% 25% cost over run + delay (c) 0.4% Typical Bill Impact (%/Month) 0.62 0.64 Typical Bill Impact (%/Month) 0.62 0.64 Typical Bill Impact (%/Month) 0.4% 0.4% UNSMOOTHED (c) (c) UNSMOOTHED (c) (c) 25% cost over run (c) (c) Typical Bill Impact (\$/Month) (1.17) 2.40 Typical Bill Impact (\$/Month) (1.17) 2.40 Typical Bill Impact (\$/Month) (1.17) 2.58 Typical Bill Impact (\$/Month) (1.04) 2.58 Typical	(a) (b) (c) SMOOTHED (a) (b) (c) 25% cost over run (a) (b) (c) Typical Bill Impact (\$/Month) 0.62 0.64 0.66 Typical Bill Impact (%) 0.4% 0.4% 0.4% 100% cost over run (b) (c) (c) Typical Bill Impact (\$/Month) 0.62 0.64 0.66 Typical Bill Impact (\$/Month) 0.4% 0.4% 0.4% UNSMOOTHED	(a) (b) (c) (d) SMOOTHED (a) (b) (c) (d) 25% cost over run (a) (b) (c) (d) Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 Typical Bill Impact (%) 0.4% 0.4% 0.4% 0.4% 100% cost over run 0.62 0.64 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 <td>(a) (b) (c) (d) (e) SMOOTHED (a) (b) (c) (d) (e) 25% cost over run (b) (c) (d) (e) Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Mont</td>	(a) (b) (c) (d) (e) SMOOTHED (a) (b) (c) (d) (e) 25% cost over run (b) (c) (d) (e) Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.66 0.66 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Month) 0.62 0.64 0.66 0.65 0.70 Typical Bill Impact (\$/Mont

Table 13 Updated L-1.3-8 GEC-065 Attachment 1, Table 3 <u>Average Bill Impact (2017-2036)</u>

Line		2017-2036
No		2017-2030
	SMOOTHED	
	25% cost over run	
1	Typical Bill Impact (\$/Month)	0.73
2	Typical Bill Impact (%)	0.5%
	100% cost over run	
3		1.50
4	Typical Bill Impact (\$/Month)	
4	Typical Bill Impact (%)	1.0%
	25% cost over run + delay ¹	
5	Typical Bill Impact (\$/Month)	0.72
6	Typical Bill Impact (%)	0.5%
	UNSMOOTHED	
	25% cost over run	
7	Typical Bill Impact (\$/Month)	0.48
8	Typical Bill Impact (%)	0.3%
	100% cost over run	
9	Typical Bill Impact (\$/Month)	0.67
10	Typical Bill Impact (%)	0.4%
	25% cost over run + delay ¹	
11	Typical Bill Impact (\$/Month)	0.49
12	Typical Bill Impact (%)	49.3%

Notes

1 One year delay in Unit 2 extends deferral period and recovery period out by one year. The final Column covers 2017-2037 for this scenario.

Table 14 Updated L-11.6-7 ED-024 Chart 1 Smoothed Nuclear Base Rates 2016-

<u>2036</u>

Year	Nuclear Base Rates (\$/MWh)
2016	59.29
2017	76.39
2018	78.60
2019	84.83
2020	88.21
2021	92.02
2022	104.20
2023	126.39
2024	124.75
2025	165.43
2026	161.28
2027	160.77
2028	149.88
2029	145.34
2030	142.29
2031	141.18
2032	136.50
2033	133.82
2034	132.74
2035	128.19
2036	125.44

Table 15Updated L-9.7-15SEC-093 Page 1 ChartFive-Year Revenue Requirement, Production, Average Rate, and Rate Smoothing Deferral Account Activity

Line	e		2017-2021		022-2026	2027-2031		2032-2036	
No.									
			(a)		(b)		(C)	(d)	
1	Anticipated Revenue Requirement (\$BN)	\$	16.8	\$	18.1	\$	18.2	\$	17.1
2	Anticipated Production (TWh)		188		130		136		141
3	Average Rate (\$/MWh)	\$	89	\$	139	\$	135	\$	121
4	Average smoothed rate (\$/MWh)	\$	84	\$	133	\$	148	\$	131
5	Net Revenue Requirement Deferred/Recovered (\$BN)	\$	1.0	\$	0.8	\$	(1.8)	\$	(1.4)
6	Interest During Period (\$BN)	\$	0.1	\$	0.5	\$	0.6	\$	0.1
7	Rate Smoothing Deferral Account Balance at End of Period (\$BN)	\$	1.1	\$	2.4	\$	1.3	\$	0.0

Table 16
Updated L-1.3-15 SEC-006 Table 1
OPG Nuclear Payment Amounts

	Nuclear Payment Amount																												
	O.R	leg 53/05	EB-20	007-0905	EB-20 ²	-2010-0008 EB-2012-000)2	EB-2013-0321			21	EB-2014-0370							EB-201	6-01	52 (Pro	posed	l)			
Effective Date	1	1-Apr-05	1-	Apr-08	1-N	/lar-11	1-J	Jan-13	1-Ja	an-14	1-Nc	ov-14	1-Ja	an-15	1-Ju	ıl-15	1-(Dct-15	1-J	lan-16	1-Ja	an-17	1-	Jan-18	1-J	lan-19	1-Ja	n-20	1-Jan-21
Base Payment Amount (\$/MWh)	\$	49.50	\$	52.98	\$	51.52	\$	51.52	\$ 5	51.52	\$ 5	59.29	\$!	59.29	\$5	9.29	\$	59.29	\$	59.29	\$	76.39	\$	78.60	\$	84.83	\$ 8	8.21	\$ 92.02
D&V Rider (\$/MWh)	\$	-	\$	2.00	\$	4.33	\$	6.27	\$	4.18	\$	4.18	\$	1.33	\$1	2.17	\$	14.34	\$	13.01	\$	2.85	\$	2.85					

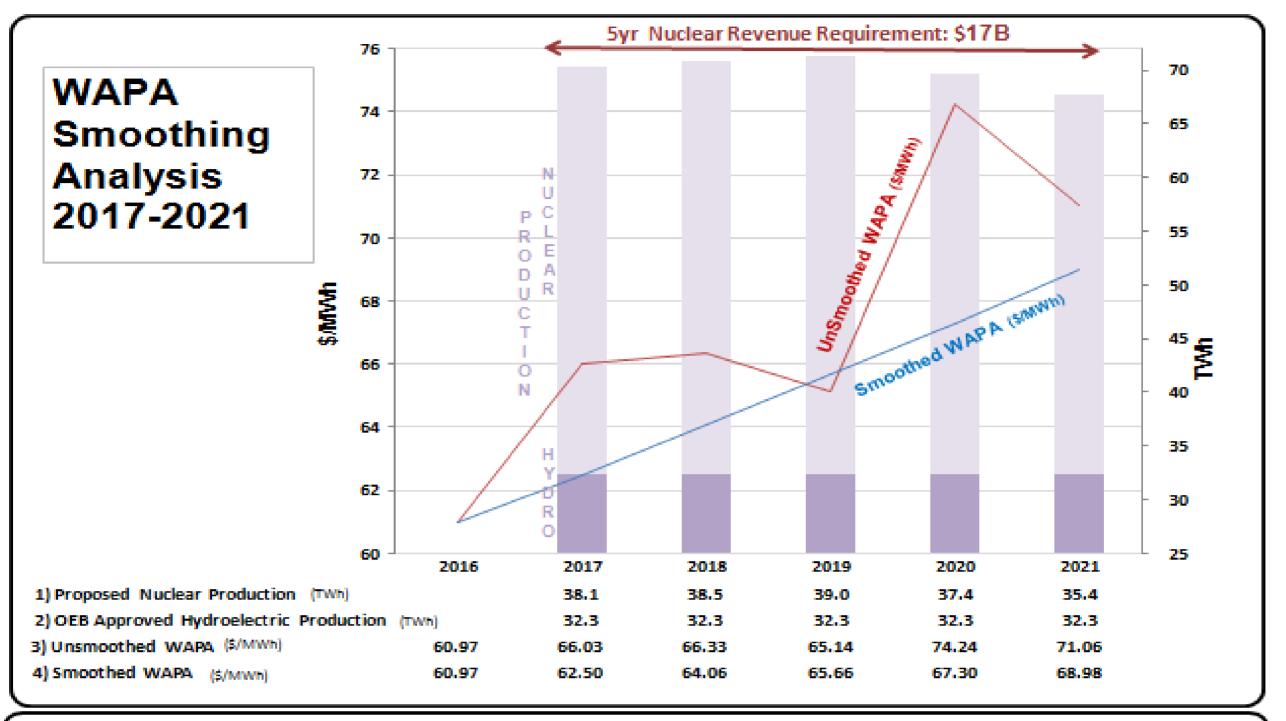
Table 17Updated L-11.6-20 VECC-051 Chart 4OPG Proposed Deferred Nuclear Revenue Requirement

	2017	2018	2019	2020	2021
Proposed Revenue Requirement* (\$M)	\$ 3,161	\$ 3,186	\$ 3,273	\$ 3,783	\$ 3,398
Forecast Production (TWh)	38.10	38.47	39.03	37.36	35.38
Unsmoothed Rate (\$/MWh)	\$ 82.98	\$ 82.81	\$ 83.87	\$ 101.28	\$ 96.03
Smoothed Rate (\$/MWh)	\$ 76.39	\$ 78.60	\$ 84.83	\$ 88.21	\$ 92.02
Smoothed Revenue (\$M)	\$ 2,910	\$ 3,024	\$ 3,311	\$ 3,295	\$ 3,256
Deferred Revenue Requirement (\$M)	\$ 251	\$ 162	\$ (38)	\$ 488	\$ 142

* Revenue requirement for 2017-2021 based on I tables in N2 update as of Feb 2017

Numbers may not add due to rounding.

Filed: 2017-03-08 EB-2016-0152 Exhibit n3 Tab 11.6 Schedule 1 Attachment 2 Table 18



Rate Smoothing Proposal 2017-2021 Account

1,600

1,200 -

\$ 1,005+ \$116

\$ 800							Δ=142
						∆ = 4 88	
				\$413 + \$22	\$375 + \$41		
400	\$251	+ \$6		Δ=162	Δ = (38)	A	
a		-251					(excludes interest)
·		2017		2018	2019	2020	2021
1) Proposed Nuclear F	roduction	(TWh)	38.1	38.5	39.0	37.4	35.4
3) Unconstrained Nucl	ear Rate	(\$/MWh)	82.98	82.81	83.87	101.28	96.03
4) Nuclear Rate (Unde	r WAPA)	\$/MWh)	76.39	78.60	84.83	88.21	92.02
4) Deferred Ame	ount	(\$M)	251	162	(38)	488	142
5) Est. Interest E	xpense	(\$M)	6	16	19	30	45
6) Accumulated	Interest	(\$M)	6	22	41	71	116

Line No.		2017	2018	2019	2020	2021	2	017-2021
		(a)	(b)	(C)	(d)	(e)		(f)
1	Anticipated Revenue Requirement (\$BN)	\$ 3.2	\$ 3.2	\$ 3.3	\$ 3.8	\$ 3.4	\$	16.8
2	Anticipated Production (TWh)	38	38	39	37	35	\$	188
3	Average Rate (\$/MWh)	\$ 83	\$ 83	\$ 84	\$ 101	\$ 96	\$	89
4	Smoothed rate (\$/MWh)	\$ 76	\$ 79	\$ 85	\$ 88	\$ 92	\$	84
5	Net Revenue Requirement Deferred/Recovered (\$BN)	\$ 0.3	\$ 0.2	\$ (0.0)	\$ 0.5	\$ 0.1	\$	1.0
6	Interest During Period (\$BN)	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$	0.1
7	Rate Smoothing Deferral Account Balance at End of Period (\$BN)	\$ 0.3	\$ 0.4	\$ 0.4	\$ 0.9	\$ 1.1		N/A

Table 19	
Updated JT3.11 Table 1	
Five-Year Revenue Requirement, Production, Average Rate, and Rate Smoothing Deferral Account Activity	1

Line		2022	2023		2024	2025	2026	2	022-2026
No.									
		(a)		(b)	(C)	(d)	 (e)		(f)
8	Anticipated Revenue Requirement (\$BN)	\$ 3.6	\$	3.4	\$ 3.6	\$ 3.9	\$ 3.5	\$	18.1
9	Anticipated Production (TWh)	31		23	31	19	25	\$	130
10	Average Rate (\$/MWh)	\$ 116	\$	147	\$ 117	\$ 205	\$ 139	\$	139
11	Smoothed rate (\$/MWh)	\$ 104	\$	126	\$ 125	\$ 165	\$ 161	\$	136
12	Net Revenue Requirement Deferred/Recovered (\$BN)	\$ 0.4	\$	0.5	\$ (0.3)	\$ 0.8	\$ (0.6)	\$	0.8
13	Interest During Period (\$BN)	\$ 0.1	\$	0.1	\$ 0.1	\$ 0.1	\$ 0.1	\$	0.5
14	Rate Smoothing Deferral Account Balance at End of Period (\$BN)	\$ 1.6	\$	2.1	\$ 2.0	\$ 2.9	\$ 2.4		N/A

Line		2027	2028		2029	2030	2031	2	027-2031
No.									
		(a)		(b)	(C)	(d)	(e)		(f)
15	Anticipated Revenue Requirement (\$BN)	\$ 4.2	\$	3.9	\$ 3.3	\$ 3.4	\$ 3.5	\$	18.2
16	Anticipated Production (TWh)	24		27	28	28	27	\$	136
17	Average Rate (\$/MWh)	\$ 174	\$	142	\$ 118	\$ 118	\$ 126	\$	135
18	Smoothed rate (\$/MWh)	\$ 161	\$	150	\$ 145	\$ 142	\$ 141	\$	148
19	Net Revenue Requirement Deferred/Recovered (\$BN)	\$ 0.3	\$	(0.2)	\$ (0.8)	\$ (0.7)	\$ (0.4)	\$	(1.8)
20	Interest During Period (\$BN)	\$ 0.1	\$	0.2	\$ 0.1	\$ 0.1	\$ 0.1	\$	0.6
21	Rate Smoothing Deferral Account Balance at End of Period (\$BN)	\$ 2.9	\$	2.8	\$ 2.2	\$ 1.6	\$ 1.3		N/A

Line	2032	2033	2034	2035	2036	2032-2036

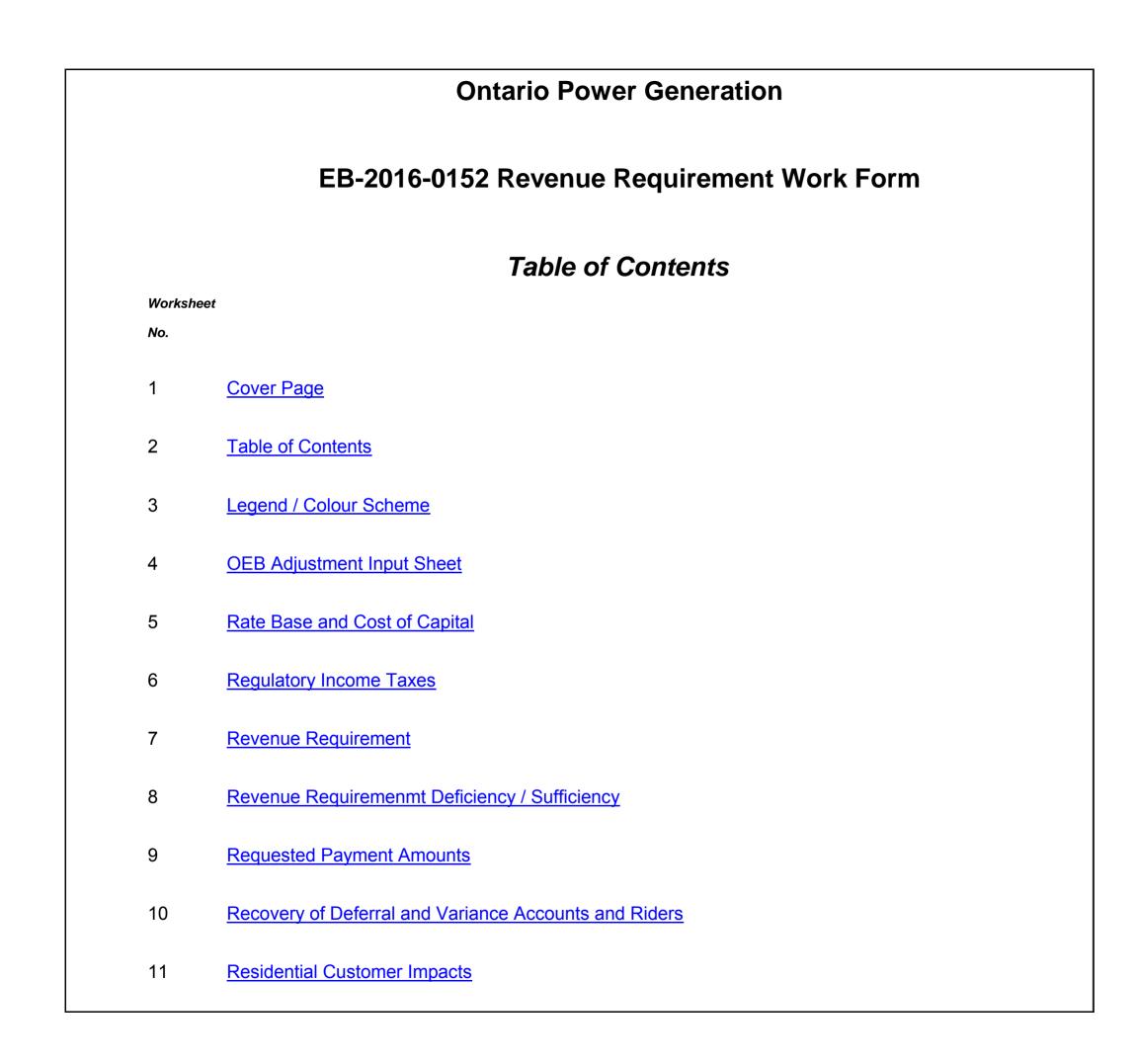
No.							
		(a)	(b)	(C)	(d)	(e)	(f)
22	Anticipated Revenue Requirement (\$BN)	\$ 3.4	\$ 3.4	\$ 3.5	\$ 3.4	\$ 3.5	\$ 17.1
23	Anticipated Production (TWh)	29	28	27	28	28	\$ 141
24	Average Rate (\$/MWh)	\$ 118	\$ 119	\$ 129	\$ 118	\$ 122	\$ 121
25	Smoothed rate (\$/MWh)	\$ 137	\$ 134	\$ 133	\$ 128	\$ 125	\$ 131
26	Net Revenue Requirement Deferred/Recovered (\$BN)	\$ (0.5)	\$ (0.4)	\$ (0.1)	\$ (0.3)	\$ (0.1)	\$ (1.4)
27	Interest During Period (\$BN)	\$ 0.1	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.1
28	Rate Smoothing Deferral Account Balance at End of Period (\$BN)	\$ 0.8	\$ 0.4	\$ 0.4	\$ 0.1	\$ 0.0	N/A

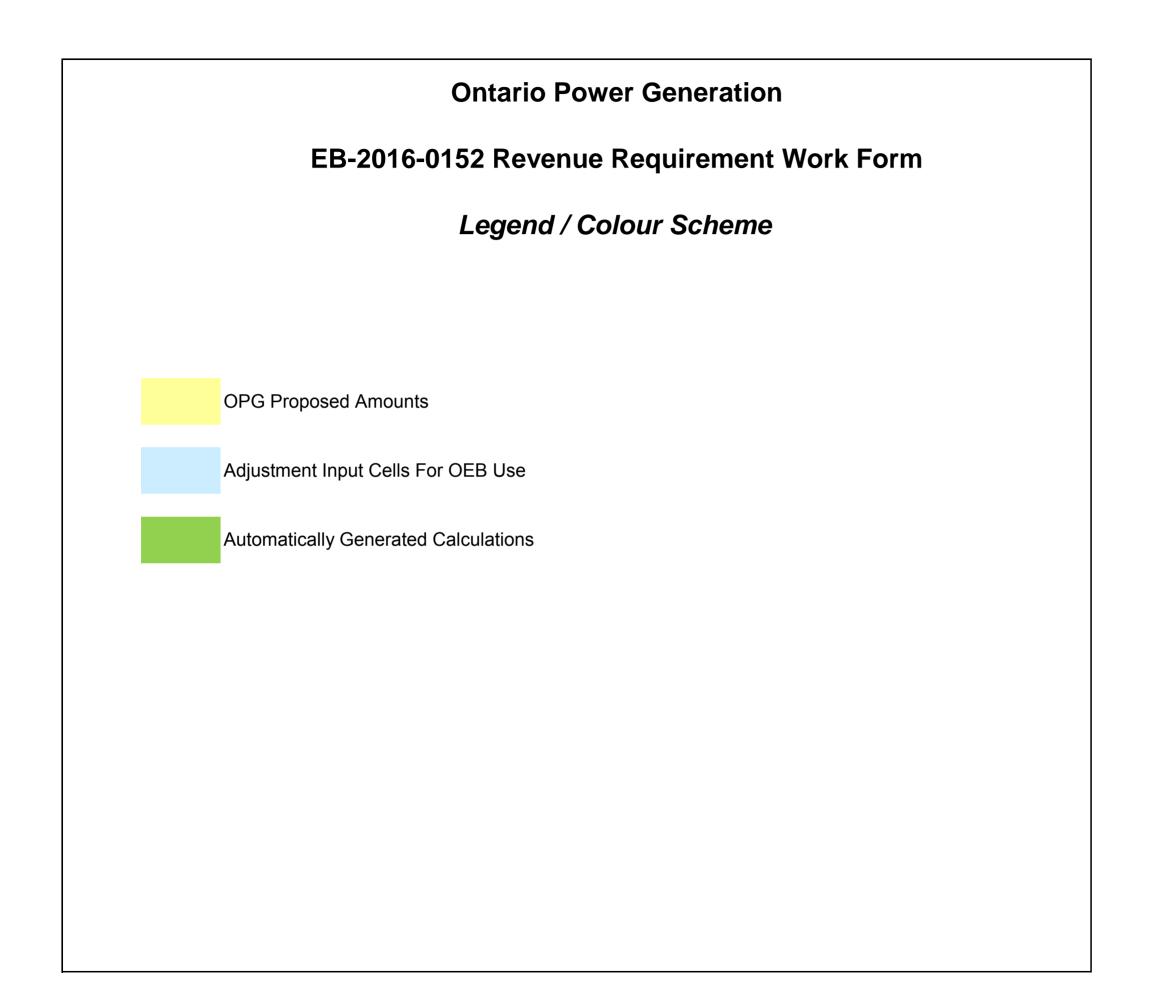
Filed March 8 2017

EB-2016-0152 Revenue Requirement Work Form

Ontario Power Generation

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1, Schedule 1 Attachment 3 Page 1 of 12





OEB Adjustment Input Sheet												Tota	I Generating Facilities												
		1	2017					2018	1				2019					2020				I	2021		
Line No. Description	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adiustment	OEB	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N2 Update	D2O 2/17/2017	OEB Adiustment	OEB
Capital Structure	(a)	(b)	(b)	(c)	(d)	(e)	(f)	(f)	(g)	Approved (h)	(i)	(j)	(j)	(k)	(I)	(m)	(n)	(n)	(0)	(p)	(q)	(r)	(r)	(s)	Approved (t)
1 Common Equity 2 Debt	49.0% 51.0%	49.0% 51.0%	49.0% 51.0%	0.0%	49.0% 51.0%	6 49.0% 6 51.0%	49.0% 51.0%	49.0% 51.0%	0.0%	49.0% 51.0%	49.0% 51.0%	49.0% 51.0%	49.0% 51.0%	0.0%	49.0% 51.0%	49.0% 51.0%	49.0% 51.0%	49.0% 51.0%	0.0%	49.0% 51.0%	49.0% 51.0%	49.0% 51.0%	49.0% 51.0%	0.0%	49.0% 51.0%
Cost of Capital																									
 3 Short-Term Debt Facility Cost (\$M) 4 Short-Term Debt Interest Cost (\$M) 	2.6 0.6	2.6 0.6	2.6 0.6		2.6 0.6	2.6 1.1	2.6 1.1	2.6 1.1		2.6 1.1	2.6 1.5	2.6 1.5	2.6 1.5		2.6 1.5	2.6 1.5	2.6 1.5	2.6 1.5		2.6 1.5	2.6 1.5	2.6 1.5	2.6 1.5		2.6 1.5
 5 Short-Term Debt Cost (\$M) 6 Regulated Portion of Short-Term Debt Cost Rate 	2.9 92.67%	2.9 92.67%	2.9 92.67%	-	2.9 92.67%	3.4 6 92.67%	3.4 92.67%	3.4 92.67%	-	3.4 92.67%	3.8 92.67%	3.8 92.67%	3.8 92.67%	-	3.8 92.67%	3.8 92.67%	3.8 92.67%	3.8 92.67%	-	3.8 92.67%	3.8 92.67%	3.8 92.67%	3.8 92.67%	-	3.8 92.67%
7 Existing and Planned Long-Term Debt Cost Rate	4.89%	4.89%	4.89%		4.89%	4.60%	4.60%	4.60%		4.60%	4.52%	4.52%	4.52%		4.52%	4.49%	4.49%	4.49%		4.49%	4.48%	4.48%	4.48%		4.48%
 8 Other Long-Term Debt Provision Cost Rate 9 Common Equity Cost Rate ROE 	4.89% 9.19%	4.89% 8.78%	4.89% 8.78%		4.89% 8.78%	6 4.60% 6 9.19%	4.60% 8.78%	4.60% 8.78%		4.60% 8.78%	4.52% 9.19%	4.52% 8.78%	4.52% 8.78%		4.52% 8.78%	4.49% 9.19%	4.49% 8.78%	4.49% 8.78%		4.49% 8.78%	4.48% 9.19%	4.48% 8.78%	4.48% 8.78%		4.48% 8.78%
10 Adjustment for Lesser of UNL/ARC Cost Rate	5.11%	4.95%	4.95%		4.95%	6 5.11%	4.95%	4.95%		4.95%	5.11%	4.95%	4.95%		4.95%	5.11%	4.95%	4.95%		4.95%	5.11%	4.95%	4.95%		4.95%
Capitalization (\$M)																									
 Short-Term Debt Principal Existing and Planned Long-Term Debt Principal Adjustment for Lesser of UNL/ARC 	37.1 2,878.4 775.4	37.1 2,878.4 524 0	37.1 2,878.4 524.0		37.1 2,878.4	37.1 3,168.1 725.1	37.1 3,168.1 446 7	37.1 3,168.1		37.1 3,168.1	37.1 3,489.7 674 9	37.1 3,489.7 369.5	37.1 3,489.7 369.5		37.1 3,489.7 260.5	37.1 3,527.6 624.6	37.1 3,527.6 202.2	37.1 3,527.6 202.2		37.1 3,527.6	37.1 3,406.0 590.1	37.1 3,406.0 249.6	37.1 3,406.0 249.6		37.1 3,406.0
		021.0	JZ4.0		524.0	725.1	440.7	440.7		446.7	074.9	309.5	369.5		309.3	024.0	292.2	292.2		292.2	590.1	249.0	243.0		249.0
		021.0	324.0		524.0	723.1	440.7	440.7		446.7	074.9		Nuclear Facilities		309.5	024.0	292.2	292.2		292.2	590.1	249.0	243.0		249.0
Line	OPG Proposed	N1 Undate	2017	OEB	OEB	OPG Proposed	440.7	2018	OFB	0EB			Nuclear Facilities 2019	OEB	OEB	021.0	N1 Undate	292.2 2020 N2 Update	OEB	 		N2 Lindate	2021	OEB	249.0 OEB
Line No. Description	OPG Proposed 5/27/2016	N1 Update 12/19/2016	2017 N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	2018 N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016		Nuclear Facilities	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	292.2 2020 N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N2 Update 2/17/2017	2021 D2O 2/17/2017	OEB Adjustment	OEB Approved
		-	2017 N2 Update	OEB Adjustment (c)	OEB Approved (d)	OPG Proposed 5/27/2016 (e)	N1 Update	-	OEB Adjustment (g)	OEB Approved (h)	OPG Proposed	N1 Update	Nuclear Facilities 2019 N2 Update	OEB Adjustment (k)	OEB Approved (I)	021.0	-	2020 N2 Update	OEB Adjustment (0)	OEB Approved (p)		N2 Update 2/17/2017 (r)	2021 D2O		
No. Description Rate Base (\$M) 14 Gross Plant at Cost	5/27/2016 (a) 7,627.1	12/19/2016 (b) 7,389.1	2017 N2 Update 2/17/2017 (b) 7,145.2	OEB Adjustment (C)	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9	N1 Update 12/19/2016 (f) 7,885.0	2/17/2017 (f) 7,519.1	OEB Adjustment (g)	Approved (h) 7,519.1	OPG Proposed 5/27/2016 (i) 8,416.1	N1 Update 12/19/2016 (j) 8,178.2	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3	OEB Adjustment (k)	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2	12/19/2016 (n) 12,649.3	2020 N2 Update 2/17/2017 (n) 12,283.4	OEB Adjustment (0)	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) 13,763.5	N2 Update 2/17/2017 (r) 13,525.6	2021 D2O 2/17/2017 (r) 13,159.7		Approved (t) 13,159.7
No. Description Rate Base (\$M) 14 Gross Plant at Cost 15 Accumulated Depreciation/Amortization 16 Cash Working Capital	5/27/2016 (a)	12/19/2016 (b) 7,389.1 4,232.3 11.0	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0	OEB Adjustment (C)	Approved (d)	5/27/2016 (e) 8,122.9 4,581.6 11.0	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0	2/17/2017 (f) 7,519.1 4,609.9 11.0	OEB Adjustment (g)	Approved (h) 7,519.1 4,609.9 11.0	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0	OEB Adjustment (k)	Approved (I)	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0	12/19/2016 (n) 12,649.3 5,511.8 11.0	2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0	OEB Adjustment (0)	Approved (p)	OPG Proposed 5/27/2016 (q) 13,763.5 5,848.8 11.0	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0		
No. Description Rate Base (\$M) 14 Gross Plant at Cost 15 Accumulated Depreciation/Amortization 16 Cash Working Capital 17 Materials and Supplies	5/27/2016 (a) 7,627.1 4,218.8	12/19/2016 (b) 7,389.1 4,232.3	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9	OEB Adjustment (C)	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5	2/17/2017 (f) 7,519.1 4,609.9	OEB Adjustment (g)	Approved (h) 7,519.1	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3	N1 Update 12/19/2016 (j) 8,178.2 5,030.4	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3	OEB Adjustment (k)	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3	12/19/2016 (n) 12,649.3 5,511.8	2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3	OEB Adjustment (0)	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) 13,763.5 5,848.8	N2 Update 2/17/2017 (r) 13,525.6 5,951.4	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2		Approved (t) 13,159.7
No. Description Rate Base (\$M) 14 Gross Plant at Cost 15 Accumulated Depreciation/Amortization 16 Cash Working Capital	5/27/2016 (a) 7,627.1 4,218.8	12/19/2016 (b) 7,389.1 4,232.3 11.0	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7	OEB Adjustment (c)	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0	2/17/2017 (f) 7,519.1 4,609.9 11.0	OEB Adjustment (g)	Approved (h) 7,519.1 4,609.9 11.0	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0	OEB Adjustment (k)	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0	12/19/2016 (n) 12,649.3 5,511.8 11.0	2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0	OEB Adjustment (0)	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) 13,763.5 5,848.8 11.0	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0		Approved (t) 13,159.7
No.DescriptionRate Base (\$M)14Gross Plant at Cost15Accumulated Depreciation/Amortization16Cash Working Capital17Materials and Supplies18Nuclear Fuel Inventory	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9	OEB Adjustment (C)	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2	OEB Adjustment (g)	Approved (h) 7,519.1 4,609.9 11.0	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2	OEB Adjustment (k)	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7	232.2 2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7	OEB Adjustment (0)	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) 13,763.5 5,848.8 11.0 415.0 208.6	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6		Approved (t) 13,159.7
No.DescriptionRate Base (\$M)14Gross Plant at Cost15Accumulated Depreciation/Amortization16Cash Working Capital17Materials and Supplies18Nuclear Fuel Inventory19TotalExpenses (\$M)20OM&A	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9 4,119.8 2,318.6	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9 3,868.4 2,346.0	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9 3,627.9 2,346.0	OEB Adjustment (C)	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2 4,239.0 2,327.1	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2 3,960.6 2,351.4	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9	OEB Adjustment (g) -	Approved (h) 7,519.1 4,609.9 11.0	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2 4,124.7 2,347.9	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3 224.2 3,819.3 2,425.1	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2 3,476.2	OEB Adjustment (k)	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7 8,118.6 2,368.0	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7 7,786.2 2,469.0	2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7 7,453.8	OEB Adjustment (0) -	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) 13,763.5 5,848.8 11.0 415.0 208.6 8,549.2 2,248.7	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6 8,208.6 8,208.6	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6 7,887.0		Approved (t) 13,159.7
No.DescriptionRate Base (\$M)14Gross Plant at Cost15Accumulated Depreciation/Amortization16Cash Working Capital17Materials and Supplies18Nuclear Fuel Inventory19TotalExpenses (\$M)20OM&A21Fuel	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9 4,119.8	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9 3,868.4	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9 3,627.9	OEB Adjustment (c)	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2 4,239.0	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2 3,960.6	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2	OEB Adjustment (g) -	Approved (h) 7,519.1 4,609.9 11.0	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2 4,124.7	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3 224.2 3,819.3	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2 3,476.2	OEB Adjustment (k) -	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7 8,118.6	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7 7,786.2	232.2 2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7	OEB Adjustment (0) -	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) 13,763.5 5,848.8 11.0 415.0 208.6 8,549.2	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6 8,208.6	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6 7,887.0		Approved (t) 13,159.7
No.DescriptionRate Base (\$M)14Gross Plant at Cost15Accumulated Depreciation/Amortization16Cash Working Capital17Materials and Supplies18Nuclear Fuel Inventory19TotalExpenses (\$M)20OM&A21Fuel22Depreciation/Amortization23Property Taxes	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9 4,119.8 2,318.6 219.9 346.9 14.6	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9 3,868.4 2,346.0 218.2 373.9 14.6	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9 3,627.9 2,346.0 218.2 367.0 14.6	OEB Adjustment (c)	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2 4,239.0 2,327.1 222.0 378.7 14.9	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2 3,960.6 2,351.4 219.9 405.7 14.9	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	(g) -	Approved (h) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2 4,124.7 2,347.9 233.1 384.0 15.3	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3 224.2 3,819.3 2,425.1 232.1 411.0 15.3	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2 3,476.2 2,425.1 232.1 400.3 15.3	OEB Adjustment (k)	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7 8,118.6 2,368.0 228.2 524.9 15.7	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7 7,786.2 2,469.0 224.4 551.9 15.7	232.2 2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7 7,453.8 2,469.0 224.4 541.2 15.7	OEB Adjustment (0) -	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) (13,763.5 5,848.8 11.0 415.0 208.6 8,549.2 2,248.7 212.7 338.1 17.0	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6 8,208.6 8,208.6 2,349.1 209.1 327.3 17.0	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6 7,887.0 2,349.1 209.1 316.7 17.0		Approved (t) 13,159.7
No.DescriptionRate Base (\$M)14Gross Plant at Cost15Accumulated Depreciation/Amortization16Cash Working Capital17Materials and Supplies18Nuclear Fuel Inventory19TotalExpenses (\$M)20OM&A21Fuel22Depreciation/Amortization23Property Taxes24Total	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9 4,119.8 2,318.6 219.9	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9 3,868.4 2,346.0 218.2 373.9	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9 3,627.9 2,346.0 218.2 367.0	OEB Adjustment (C) -	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2 4,239.0 2,327.1 222.0	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2 3,960.6 2,351.4 219.9 405.7	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9	OEB Adjustment (g) -	Approved (h) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2 4,124.7 2,347.9 233.1	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3 224.2 3,819.3 2,425.1	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2 3,476.2 2,425.1 232.1 400.3	OEB Adjustment (k) -	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7 8,118.6 2,368.0 228.2 524.9	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7 7,786.2 2,469.0 224.4 551.9	2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7 7,453.8 2,469.0 224.4 541.2	OEB Adjustment (0) -	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) 13,763.5 5,848.8 11.0 415.0 208.6 8,549.2 2,248.7 212.7 338.1	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6 8,208.6 8,208.6 2,349.1 209.1 327.3	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6 7,887.0 2,349.1 209.1 316.7		Approved (t) 13,159.7
No.DescriptionRate Base (\$M)14Gross Plant at Cost15Accumulated Depreciation/Amortization16Cash Working Capital17Materials and Supplies18Nuclear Fuel Inventory19TotalExpenses (\$M)20OM&A21Fuel22Depreciation/Amortization23Property Taxes24TotalOther Revenues (\$M)	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9 4,119.8 2,318.6 219.9 346.9 14.6	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9 3,868.4 2,346.0 218.2 373.9 14.6	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9 3,627.9 2,346.0 218.2 367.0 14.6	OEB Adjustment (C) -	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2 4,239.0 2,327.1 222.0 378.7 14.9	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2 3,960.6 2,351.4 219.9 405.7 14.9	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	(g) -	Approved (h) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2 4,124.7 2,347.9 233.1 384.0 15.3 2,980.3	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3 224.2 3,819.3 2,425.1 232.1 411.0 15.3	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2 3,476.2 2,425.1 232.1 400.3 15.3	OEB Adjustment (k) -	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7 8,118.6 2,368.0 228.2 524.9 15.7	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7 7,786.2 2,469.0 224.4 551.9 15.7	232.2 2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7 7,453.8 2,469.0 224.4 541.2 15.7	OEB Adjustment (0) -	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) (13,763.5 5,848.8 11.0 415.0 208.6 8,549.2 2,248.7 212.7 338.1 17.0	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6 8,208.6 8,208.6 2,349.1 209.1 327.3 17.0 2,902.5	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6 7,887.0 2,349.1 209.1 316.7 17.0		Approved (t) 13,159.7
No. Description Rate Base (\$M) 14 Gross Plant at Cost 15 Accumulated Depreciation/Amortization 16 16 Cash Working Capital 17 17 Materials and Supplies 18 18 Nuclear Fuel Inventory 19 19 Total Expenses (\$M) 20 OM&A 21 Fuel 22 Depreciation/Amortization 23 Property Taxes 24 Total Other Revenues (\$M) 25 25 Bruce Lease Revenues Net of Direct Costs 26 Ancillary and Other Revenue	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9 4,119.8 2,318.6 219.9 346.9 14.6	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9 3,868.4 2,346.0 218.2 373.9 14.6	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9 3,627.9 2,346.0 218.2 367.0 14.6 2,945.8 (16.9) 31.7	OEB Adjustment (C) -	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2 4,239.0 2,327.1 222.0 378.7 14.9	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2 3,960.6 2,351.4 219.9 405.7 14.9	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	(g) -	Approved (h) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2 4,124.7 2,347.9 233.1 384.0 15.3 2,980.3 (85.9) 22.7	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3 224.2 3,819.3 2,425.1 232.1 411.0 15.3	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2 3,476.2 2,425.1 232.1 400.3 15.3	OEB Adjustment (k) -	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7 8,118.6 2,368.0 228.2 524.9 15.7	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7 7,786.2 2,469.0 224.4 551.9 15.7	232.2 2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7 7,453.8 2,469.0 224.4 541.2 15.7	OEB Adjustment (0) -	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) (q) 13,763.5 5,848.8 11.0 415.0 208.6 8,549.2 2,248.7 212.7 338.1 17.0 2,816.5 (93.1) 22.9	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6 8,208.6 8,208.6 2,349.1 209.1 327.3 17.0 2,902.5 (38.1) 22.9	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6 7,887.0 2,349.1 209.1 316.7 17.0 2,891.8 (38.1) 22.9		Approved (t) 13,159.7
No.DescriptionRate Base (\$M)14Gross Plant at Cost15Accumulated Depreciation/Amortization16Cash Working Capital17Materials and Supplies18Nuclear Fuel Inventory19TotalExpenses (\$M)2020OM&A2122Depreciation/Amortization23Property Taxes24TotalOther Revenues (\$M)25Bruce Lease Revenues Net of Direct Costs	5/27/2016 (a) 7,627.1 4,218.8 11.0 448.7 251.9 4,119.8 2,318.6 219.9 346.9 14.6	12/19/2016 (b) 7,389.1 4,232.3 11.0 448.7 251.9 3,868.4 2,346.0 218.2 373.9 14.6	2017 N2 Update 2/17/2017 (b) 7,145.2 4,228.9 11.0 448.7 251.9 3,627.9 2,346.0 218.2 367.0 14.6	OEB Adjustment (C) -	Approved (d) 7,145.2	5/27/2016 (e) 8,122.9 4,581.6 11.0 444.5 242.2 4,239.0 2,327.1 222.0 378.7 14.9 2,942.8 (74.3)	N1 Update 12/19/2016 (f) 7,885.0 4,622.1 11.0 444.5 242.2 3,960.6 2,351.4 219.9 405.7 14.9 2,991.9 (17.1)	2/17/2017 (f) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	(g) -	Approved (h) 7,519.1 4,609.9 11.0 444.5 242.2 3,606.9 2,351.4 219.9 395.0 14.9	OPG Proposed 5/27/2016 (i) 8,416.1 4,962.9 11.0 436.3 224.2 4,124.7 2,347.9 233.1 384.0 15.3 2,980.3 (85.9)	N1 Update 12/19/2016 (j) 8,178.2 5,030.4 11.0 436.3 224.2 3,819.3 2,425.1 232.1 411.0 15.3	Nuclear Facilities 2019 N2 Update 2/17/2017 (j) 7,812.3 5,007.5 11.0 436.3 224.2 3,476.2 2,425.1 232.1 400.3 15.3	OEB Adjustment (k) -	Approved (I) 7,812.3	OPG Proposed 5/27/2016 (m) 12,887.2 5,417.3 11.0 427.0 210.7 8,118.6 2,368.0 228.2 524.9 15.7 3,136.7 (82.1)	12/19/2016 (n) 12,649.3 5,511.8 11.0 427.0 210.7 7,786.2 2,469.0 224.4 551.9 15.7	2020 N2 Update 2/17/2017 (n) 12,283.4 5,478.3 11.0 427.0 210.7 7,453.8 2,469.0 224.4 541.2 15.7 3,250.3	OEB Adjustment (0) -	Approved (p) 12,283.4	OPG Proposed 5/27/2016 (q) (13,763.5 5,848.8 11.0 415.0 208.6 8,549.2 2,248.7 212.7 338.1 17.0	N2 Update 2/17/2017 (r) 13,525.6 5,951.4 11.0 415.0 208.6 8,208.6 8,208.6 2,349.1 209.1 327.3 17.0 2,902.5 (38.1)	2021 D2O 2/17/2017 (r) 13,159.7 5,907.2 11.0 415.0 208.6 7,887.0 2,349.1 209.1 316.7 17.0		Approved (t) 13,159.7

OEB Adjustment Input Sheet	

													Nuclear Facilities												
			2017		-		-	2018					2019		-			2020		-			2021		
Line No. Description	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update	OEB Adjustment	OEB	OPG Proposed	N1 Update 12/19/2016	N2 Update	OEB Adjustment	OEB Approved	OPG Proposed	N1 Update	N2 Update	OEB Adjustment	OEB	OPG Proposed	N1 Update	N2 Update	OEB Adjustment	OEB	OPG Proposed	N2 Update	D2O 2/17/2017	OEB Adjustment	OEB
	(a)	(b)	(b)	(C)	(d)	(e)	(f)	(f)	(g)	(h)	(i)	(j)	(j)	(k)		(m)	(n)	(n)	(0)	(p)	(q)	(r)	(r)	(S)	(t)
Applicable Tax Rates														. /											
29 Federal Rate30 Provincial Rate	15.00% 10.00%	15.00%	15.00% 10.00%		15.00%	6 15.00% 6 10.00%	15.00% 10.00%	15.00% 10.00%		15.00%	15.00%	15.00%	15.00% 10.00%		15.00%	15.00%	15.00%	15.00% 10.00%		15.00%	15.00% 10.00%	15.00%	15.00% 10.00%		15.00%
31 Total Tax Rate	25.00%	<u> </u>	25.00%	-	<u> </u>	6 25.00%	<u> </u>	25.00%	-	25.00%	<u> </u>	<u> </u>	25.00%	-	<u> </u>	25.00%	<u> </u>	25.00%	-	<u> </u>	25.00%	<u> </u>	25.00%	-	<u> </u>
Tax Credits and Payment Adjustments (\$M)		(40.4)			(40.4		(40.4)			(40.4)	(40.4)	(10.1)					(40.4)				(42.4)				(40.4)
32 SR&ED Investment	(18.4)	(18.4)	(18.4)		(18.4) (18.4)	(18.4)	(18.4)		(18.4)	(18.4)	(18.4)	(18.4)		(18.4)	(18.4)	(18.4)	(18.4)		(18.4)	(18.4)	(18.4)	(18.4)		(18.4)
Taxable Income Adjustments (\$M)																									
Additions	0.40.0	070.0	007.0		007.0	070 7	105 7	005.0		005.0	004.0	444.0	100.0		400.0	504.0	554.0	544.0		E44.0	000.4	007.0	040.7		040.7
33 Depreciation and Amortization34 Pension and OPEB Accrual	346.9 272.0	373.9 291.2	367.0 291.2		367.0	378.7 280.4	405.7 298.7	395.0 298.7		395.0 208.7	384.0 289.5	411.0 343.3	400.3 343.3		400.3	524.9 271.3	551.9 352.3	541.2 352.3		541.2 352 3	338.1 279.9	327.3 359.2	316.7		316.7
35 Regulatory Liability Amortization - Income and Other Taxes Variance Acct	(2.2)	(2.2)	(2.2)		(2.2)	(2.2)	(2.2)	(2.2)		(2.2)	-	-	-		-	-	-	-		-	-	-	-		-
36 Regulatory Asset Amortization - Bruce Lease Net Revenues Variance Acct	(24.0)	(24.0)	(24.0)		(24.0	(24.0)	(2.2) (24.0)	(24.0)		(24.0)	-	-	-		-	-	-	-		-	-	-	-		-
37 Taxable SR&ED Investment Tax Credits	18.4	18.4	18.4		18.4	18.4	18.4	18.4		18.4	18.4	18.4	18.4		18.4	18.4	18.4	18.4		18.4	18.4	18.4	18.4		18.4
38 Adjustment Related to Financing Cost for Nuclear Liabilities	39.6	25.9	25.9		25.9	37.1	22.1	22.1		22.1	34.5	18.3	18.3		18.3	31.9	14.5	14.5		14.5	30.2	12.4	12.4		12.4
39 Nuclear Waste Management Expenses	57.8	63.9	63.9		63.9	59.8	63.2	63.2		63.2	72.1	77.9	77.9		77.9	61.9	66.5 152 0	66.5		66.5	63.1	68.8 103 7	68.8		68.8
40 Receipts from Nuclear Segregated Funds	85.0	84.4	84.4		84.4	108.3	85.7 49.2	85.7		85.7	140.0	120.4	120.4		120.4	208.4	152.0	152.0 38.6		152.0	191.6	193.7	193.7		193.7
41 Other42 Total Additions	857.2	<u> </u>	<u> </u>	-	888.4	49.2 905.7	<u> </u>	<u>49.2</u> 906.2	-	49.2 906.2	<u> </u>	<u> </u>	1,016.9	-	38.4 1,016.9	38.6 1,155.4	<u> </u>	1,183.4	-	<u> </u>	40.2 961.4	40.2 1,019.9	40.2 1,009.3	-	40.2 1,009.3
Deductions43CCA	304.2	30/ 2	30/1 2		30/ 2	504.4	504 4	504 4		504.4	571.1	571 1	571.1		571 1	50/ 8	50/ 8	501 8		50/ 8	507.0	507 0	507.0		507.0
43 Cash Expenditures for Nuclear Waste & Decomissioning	394.2 166.0	217.5	394.2 217 5		217 5	504.4 177 4	504.4 227.9	504.4 227.9		227.9	200.6	232.8	232.8		232.8	594.8 230.7	594.8 283.6	594.8 283.6		283.6	228.0	317.0	317.0		317.0
45 Contributions to Nuclear Segregated Funds	156.1	-	-		-	175.3	-	-		-	265.7	-	-		-	35.2	-	-		-	35.2	-	-		-
46 Pension Plan Contributions	171.1	200.0	200.0		200.0	175.5	202.9	202.9		202.9	180.3	243.5	243.5		243.5	157.2	247.9	247.9		247.9	162.1	250.6	250.6		250.6
					04.4	404.0	95.7	95.7		95.7	109.2	99.9	99.9		99.9	114.1	104.3	104.3		104.3	117.8	108.5	108.5		108.5
47 OPEB/SPP Payments	100.9	91.1	91.1		91.1	104.9		55.7		00.7					00.0										
48 Deductible SR&ED Qualifying Expenditures	27.7	91.1 27.7	91.1 27.7		91.1 27.7	27.7	27.7	27.7		27.7	27.7	27.7	27.7		27.7	27.7	27.7	27.7		27.7	27.7	27.7	27.7		27.7
 48 Deductible SR&ED Qualifying Expenditures 49 Other 	27.7 20.3	27.7 20.3	27.7 20.3		91.1 27.7 20.3	27.7 0.1	27.7 0.1	27.7 0.1		27.7 0.1	27.7 1.1	27.7 1.1	27.7 1.1		27.7	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5
48 Deductible SR&ED Qualifying Expenditures	27.7	91.1 27.7 20.3 950.9	91.1 27.7 20.3 950.9	-	91.1 27.7 20.3 950.9			27.7 0.1 1,058.8	-	27.7 0.1 1,058.8	27.7			-	27.7 1.1 1,176.0	27.7	27.7	27.7	-	27.7 5.7 1,264.1			27.7	-	27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 	27.7 20.3	27.7 20.3	27.7 20.3	-	91.1 27.7 20.3 950.9 Deferral	27.7 0.1	27.7 0.1	27.7 0.1	-	27.7 0.1 1,058.8	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions 	27.7 20.3 1,036.2	27.7 20.3 950.9	27.7 20.3 950.9 2017	- -	-	27.7 0.1 1,165.4	27.7 0.1 1,058.8	27.7 0.1 1,058.8 2018	- -		27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line	27.7 20.3 1,036.2	27.7 20.3 950.9 N1 Update	27.7 20.3 950.9 2017 N2 Update	- OEB Adjustment	OEB	27.7 0.1 1,165.4	27.7 0.1 1,058.8 N1 Update	27.7 0.1 1,058.8 2018 N2 Update	- OEB Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description	27.7 20.3 1,036.2	27.7 20.3 950.9	27.7 20.3 950.9 2017	- OEB Adjustment	-	27.7 0.1 1,165.4	27.7 0.1 1,058.8	27.7 0.1 1,058.8 2018	- OEB Adjustment		27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M)	27.7 20.3 1,036.2 OPG Proposed 5/27/2016	N1 Update 12/19/2016	27.7 20.3 950.9 2017 N2 Update 2/17/2017	Adjustment	OEB	27.7 0.1 1,165.4	27.7 0.1 1,058.8 N1 Update 12/19/2016	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance	27.7 20.3 1,036.2 OPG Proposed 5/27/2016	N1 Update 12/19/2016 (8.7)	27.7 20.3 950.9 2017 N2 Update 2/17/2017	Adjustment	OEB	27.7 0.1 1,165.4	27.7 0.1 1,058.8 N1 Update 12/19/2016	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric	27.7 20.3 1,036.2 OPG Proposed 5/27/2016	N1 Update 12/19/2016 (8.7)	27.7 20.3 950.9 2017 N2 Update 2/17/2017	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6)	27.7 0.1 1,058.8 N1 Update 12/19/2016	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	N1 Update 12/19/2016 (8.7) (6.6) (0.0)	27.7 20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0)	Adjustment	OEB	27.7 0.1 1,165.4 I Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	27.7 0.1 1,058.8 N1 Update 12/19/2016	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2	N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	N1 Update 12/19/2016 (8.7) (6.6) (0.0)	27.7 20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0)	Adjustment	OEB	27.7 0.1 1,165.4 I Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	27.7 0.1 1,058.8 N1 Update 12/19/2016	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric - Future	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0)	N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1	Adjustment	OEB	27.7 0.1 1,165.4 I Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5	-	27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric - Future 58 Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0)	N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	20.3 950.9 2017 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 1.6	Adjustment	OEB	27.7 0.1 1,165.4 I Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric - Future 58 Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions 59 Pension & OPEB Cash Payment Variance - Hydroelectric	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0)	N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	2017 2017 2017 2017 2017 2017 2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1	Adjustment	OEB	27.7 0.1 1,165.4 I Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric - Future 58 Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions 59 Pension & OPEB Cash Payment Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	(8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	2017 20.3 950.9 2017 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1	-	27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric - Future 58 Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions 59 Pension & OPEB Cash Payment Variance - Hydroelectric	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0)	(8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	2017 2017 2017 2017 2017 2017 2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1	Adjustment	OEB	27.7 0.1 1,165.4 I Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric - Future 58 Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions 59 Pension & OPEB Cash Payment Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	(8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	2017 20.3 950.9 2017 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Vater Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 59 Pension & OPEB Cost Variance - Hydroelectric 50 Pension & OPEB Cash Payment Variance - Hydroelectric 51 Pension & OPEB Cash Payment Variance - Hydroelectric 52 Pension & OPEB Cash Payment Variance - Hydroelectric 53 Pension & OPEB Cash Payment Variance - Hydroelectric 54 Pydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	01.1 27.7 20.3 950.9 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	2017 2017 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	Adjustment -	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7	-	27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Incentive Mechanism Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 59 Pension & OPEB Cash Payment Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	01.1 27.7 20.3 950.9 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	20.3 950.9 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.9 0.5	Adjustment -	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (1.6 (1.1 (0.0) (1.6 (1.1) (0.0) (0	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric - Future 59 Pension and OPEB Cost Variance - Hydroelectric 50 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	01.1 27.7 20.3 950.9 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	2017 2017 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	Adjustment -	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (1.6 (1.1 (0.0) (1.6 (1.1) (0.0) (0	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 59 Pension & OPEB Cost Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear 65 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear 65 Capacity Refurbishment Variance - Nuclear 66 Ancillary Services Net Revenue Variance - Nuclear 67 Capacity Refurbishment Variance - Nuclear - Capital Portion 68 Capacity Refurbishment Variance - Nuclear - Capital Portion 69 Capacity Refurbishment Variance - Nuclear - Non-Capital Portion	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4	01.1 27.7 20.3 950.9 050.9 050.9 050.9 050.9 0.0 0.0 0.0 0.0 0.0 0.0 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8)	2017 20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8)	Adjustment -	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8)	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.9 0.5 (18.8) (15.8)	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Line No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric - Future 59 Pension and OPEB Cost Variance - Hydroelectric 50 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	01.1 27.7 20.3 950.9 050.9 050.9 050.9 050.9 0.0 0.0 0.0 0.0 0.0 0.0 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8)	20.3 950.9 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.9 0.5	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (1.6 (1.1 (0.0) (1.6 (1.1) (0.0) (0	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Eline No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 59 Pension and OPEB Cost Variance - Hydroelectric 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance 65 Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear 65 Capacity Refurbishment Variance - Nuclear 66 Capacity Refurbishment Variance - Nuclear 67 Capacity Refurbishment Variance - Nuclear 68 Capacity Refurbishment Variance - Nuclear 69 Ruce Lease Net Revenues Variance - Non-Capital Portion 69 Bruce Lease Net Revenues Variance - Derivative Sub-Account - Post 2012 Additions	27.7 20.3 1,036.2 0PG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	0.1.1 27.7 20.3 950.9 0.5 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	2017 20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3)	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (15.8) (34.3)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Eline No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 59 Pension and OPEB Cost Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear 65 Capacity Refurbishment Variance - Nuclear 66 Capacity Refurbishment Variance - Nuclear 67 Pension & OPEB Cash Payment Variance - Nuclear 68 Income and Other Taxes Variance - Nuclear 68 Income and Other Taxes Variance - Nuclear	27.7 20.3 1,036.2 0PG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	0.1.1 27.7 20.3 950.9 0.5 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	2017 20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2)	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (15.8) (34.3)	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 59 Pension and OPEB Cost Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear - Capital Portion 65 Capacity Refurbishment Variance - Nuclear - Capital Portion 66 Capacity Refurbishment Variance - Nuclear - Capital Portion	27.7 20.3 1,036.2 0PG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	0.1.1 27.7 20.3 950.9 950.9 0.0 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	2017 2017 2017 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Eline No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Surplus Baseload Generation Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 59 Pension & OPEB Cash Payment Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear - Capital Portion 65 Gapacity Refurbishment Variance - Nuclear - Capital Portion 66 Bruce Lease Net Revenues Variance - Non-Capital Portion 67 Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - Post 2012 Additions 68 Income and OHer Taxes Variance - Nuclear - Capital Portion 68 Income and OHer Taxes Variance - Nuclear - Future 70 Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions 81 Income and Other Taxes Variance - Nuclear - Future 70 Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions 82 Income and Other Taxes Variance - Nuclear - Post 2012 Additions 83 Income and OHer Taxes Variance - Nuclear - Post 2012 Additions 84 Income and OHer Taxes Variance - Nuclear - Post 2012 Additions 85 Income and OHE Cost Variance - Nuclear - Post 2012 Additions 86 Income and OHER Cost Variance - Nuclear - Post 2012 Additions 87 Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions 88 Income and OHER Taxes Variance - Nucle	27.7 20.3 1,036.2 0PG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	0.1.1 27.7 20.3 950.9 0.5 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	2017 20.3 950.9 2017 N2 Update 2/17/2017 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5 113.1	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 (15.8) (34.3) (0.34.3) 10.3	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5 113.1	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Cuentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric - Fost 2012 Additions 59 Pension and OPEB Cost Variance - Hydroelectric 61 Total Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total 62 Nuclear Development Variance - Nuclear - Capital Portion 63 Ancillary Services Net Revenue Variance - Nuclear - Capital Portion 64 Capacity Refurbishment Variance - Nuclear - Capital Portion 65 Capacity Refurbishment Variance - Nuclear - Non-Capital Portion 66 Bruce Lease Net Revenues Variance - Nuclear - Non-C	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	0.1.1 27.7 20.3 950.9 950.9 0.0 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	2017 2017 2017 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4
 48 Deductible SR&ED Qualifying Expenditures 49 Other 50 Total Deductions Eline No. Description Hydroelectric Facilities (\$M) 51 Hydroelectric Water Conditions Variance 52 Ancillary Services Net Revenue Variance - Hydroelectric 53 Hydroelectric Incentive Mechanism Variance 54 Hydroelectric Surplus Baseload Generation Variance 55 Income and Other Taxes Variance - Hydroelectric 56 Capacity Refurbishment Variance - Hydroelectric 57 Pension and OPEB Cost Variance - Hydroelectric 58 Pension and OPEB Cost Variance - Hydroelectric 60 Hydroelectric Deferral and Variance Over/Under Recovery Variance 61 Total Nuclear Facilities (\$M) 62 Nuclear Development Variance 63 Ancillary Services Net Revenue Variance - Nuclear 64 Capacity Refurbishment Variance - Nuclear - Capital Portion 65 Capacity Refurbishment Variance - Nuclear - Capital Portion 66 Capacity Refurbishment Variance - Nuclear - Capital Portion 67 Capacity Refurbishment Variance - Nuclear - Capital Portion 68 Income and Other Taxes Variance - Derivative Sub-Account - Post 2012 Additions 69 Pension and OPEB Cost Variance - Nuclear - Capital Portion 68 Income and Other Taxes Variance - Nuclear - Capital Portion 68 Income and Other Taxes Variance - Nuclear - Capital Portion 68 Income and Other Taxes Variance - Nuclear - Capital Portion 68 Income and Other Taxes Variance - Nuclear - Capital Portion 68 Income and Other Taxes Variance - Nuclear - Capital Portion 69 Pension and OPEB Cost Variance - Nuclear - Sub-Account - Post 2012 Additions 69 Pension and OPEB Cost Variance - Nuclear - Future 70 Pension and OPEB Cost Variance - Nuclear - Future 70 Pension and OPEB Cost Variance - Nuclear - Future 70 Pension and OPEB Cost Variance - Nuclear - Future 70 Pension and OPEB Cost Variance - Nuclear - Future	27.7 20.3 1,036.2 OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	0.1.1 27.7 20.3 950.9 950.9 0.0 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	2017 2017 2017 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 (15.8) (15.8) (34.3) 10.3 (2.2) 21.5 113.1 11.7	Adjustment	OEB	27.7 0.1 1,165.4 Accounts OPG Proposed 5/27/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3 (2.2) 21.5	27.7 0.1 1,058.8 N1 Update 12/19/2016 (8.7) (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 (15.8) (15.8) (34.3) 10.3 (2.2) 21.5 (13.1 11.7	27.7 0.1 1,058.8 2018 N2 Update 2/17/2017 (6.6) (0.0) 41.2 (0.0) 41.2 (0.0) 1.6 1.1 5.9 2.1 6.7 2.1 6.7 43.4 0.9 0.5 (18.8) (15.8) (34.3) 10.3	Adjustment	OEB	27.7 1.1	27.7 1.1	27.7 1.1		27.7 1.1 1,176.0	27.7 5.7	27.7 5.7	27.7 5.7		27.7 5.7 1,264.1	27.7 16.5	27.7 16.5	27.7 16.5		27.7 16.5 1,317.4

nt Input Sheet	

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1, Schedule 1 Attachment 3 Page 5 of 12 OPG Rate Base and Cost of Capital

OF G Rate Dase and Cost of Capital		Tot	al Generating Facili	ties											Nuclear	^r Facilities									
			2017					2018					2019					2020					2021		
Line Description	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	t Approv
•	(a)	(b)	(b)	(c)	(d)	(e)	(f)	(f)	(g)	(h)	(i)	(j)	(j)	(k)	(I)	(m)	(n)	(n)	(0)	(p)	(q)	(r)	(r)	(S)	(t)
 Nuclear Rate Base Financed by Capital Structure (\$M) Nuclear Allocation Factor* 	3,344.4 30.90%	3,344.4 30.90%	3,103.9 29.33%		3,103.9 29.33%	3,513.9 31.96%	3,513.9 31.96%	3,160.2 29.70%		3,160.2 29.70%	3,449.8 31.58%	3,449.8 31.58%	3,106.8 29.36%	- 0.00%	3,106.8 29.36%	7,494.0 49.70%	7,494.0 49.70%	7,161.7 48.56 %	- - 0.00%	7,161.7 48.56%	7,959.1 50.88%	7,959.1 50.88%	7,637.4 49.85%		7,6 0% 49
												Nuclear Fac	cilities												
			2017					2018					2019					2020					2021		
No. Description	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	OEB Adjustment	OEB t Approv
	(a)	(b)	(b)	(C)	(d)	(e)	(f)	(f)	(g)	(h)	(i)	(j)	(j)	(k)	(I)	(m)	(n)	(n)	(0)	(p)	(q)	(r)	(r)	(s)	(t)
ipitalization (\$M)																									
3 Total Rate Base	4,119.8	3,868.4	3,627.9		3,627.9	4,239.0	3,960.6	3,606.9	-	3,606.9	4,124.7	3,819.3	3,476.2	-	3,476.2	8,118.6	7,786.2	7,453.8		7,453.8	8,549.2	8,208.6	7,887.0		7,8
4 Adjustment for Lesser of UNL/ARC	775.4	524.0	524.0		524.0	725.1	446.7	446.7	-	446.7	674.9	369.5	369.5	-	369.5	624.6	292.2	292.2		292.2	590.1	249.6	249.6		
5 Rate Base Financed by Capital Structure	3,344.4	3,344.4	3,103.9	-	3,103.9	3,513.9	3,513.9	3,160.2	-	3,160.2	3,449.8	3,449.8	3,106.8	-	3,106.8	7,494.0	7,494.0	7,161.7	-	7,161.7	7,959.1	7,959.1	7,637.4	-	7,6
6 Common Equity	1,638.7	1,638.7	1,520.9	-	1,520.9	1,721.8	1,721.8	1,548.5	-	1,548.5	1,690.4	1,690.4	1,522.3	-	1,522.3	3,672.1	3,672.1	3,509.2	-	3,509.2	3,899.9	3,899.9	3,742.3	-	3,7
7 Total Debt	1,705.6	1,705.6	1,583.0	-	1,583.0	1,792.1	1,792.1	1,611.7	-	1,611.7	1,759.4	1,759.4	1,584.5	-	1,584.5	3,821.9	3,821.9	3,652.4	-	3,652.4	4,059.1	4,059.1	3,895.1	-	3,8
8 Short-Term Debt	11.5	11.5	10.9	(0.0)	10.9	11.8	11.8	11.0	-	11.0	11.7	11.7	10.9	(0.0)	10.9	18.4	18.4	18.0		18.0	18.9	18.9	18.5	0.0	.0
9 Existing and Planned Long-Term Debt	889.5	889.5	844.3	(0.0)	844.3	1,012.6	1,012.6	940.9	-	940.9	1,102.1	1,102.1	1,024.7	(0.0)	1,024.7	1,753.1	1,753.1	1,713.1		1,713.1	1,733.0	1,733.0	1,697.9	0.0	.0 1,6
10 Other Long-Term Debt Provision	<u>804.6</u>	804.6	727.8	0.0	727.8	767.7	767.7	659.8	-	659.8	645.6	645.6	548.9	0.0	548.9	2,050.4	2,050.4	1,921.3	-	1,921.3	2,307.3	2,307.3	2,178.7	(0.0).0) 2,1
ost of Capital (\$M)																									
11 Adjustment for Lesser of UNL/ARC	39.6	25.9	25.9	-	25.9	37.1	22.1	22.1	-	22.1	34.5	18.3	18.3	-	18.3	31.9	14.5	14.5	-	14.5	30.2	12.4	12.4	-	
12 Common Equity	150.6	143.9	133.5	-	133.5	158.2	151.2	136.0	-	136.0	155.3	148.4	133.7	-	133.7	337.5	322.4	308.1	-	308.1	358.4	342.4	328.6	-	3
13 Existing and Planned Long-Term Debt	43.5	43.5			41.3	46.6	46.6	43.3		43.3	49.8	49.8	46.3			78.8	78.8			77.0	77.6	77.6			.0
14 Other Long-Term Debt Provision Uses Principal Rate Base Financed by Capital Structure from C1-1-	39.3	39.3	35.6	0.0	35.6	35.3	35.3	30.3	-	30.3	29.2	29.2	24.8	0.0	24.8	92.1	92.1	86.3	-	86.3	103.4	103.4	97.6	(0.0	.0)

Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1, Schedule 1 Attachment 3 Page 6 of 12 **OPG Regulatory Income Taxes**

OPG Regulatory income raxes												Nucl	ear Generating Facili	ities											
			2017					2018					2019					2020					2021		
Line	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB
No. Description	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved
	(a)	(b)	(b)	(C)	(d)	(e)	(†)	(†)	(g)	(h)	(I)	(J)	(j)	(K)	(I)	(m)	(n)	(n)	(0)	(p)	(q)	(r)	(r)	(S)	(t)
Applicable Tax Rates	45.000	45.000/	15 000/	0.000/	45.000	(0.000/	45.000	45.000/		15 000/	0.000/	45.000/	15.000/	45.000/	15 000/	0.000/		(45.000/		0.000/	45.000/
1 Federal Rate	15.00%	15.00%			15.00%	6 15.00%	15.00%	15.00%	0.00%	15.00%	15.00%	15.00%	15.00%	0.00%	15.00%	15.00%	15.00%	15.00%		15.00%	15.00%	15.00%	15.00%		15.00%
2 Provincial Rate	10.00%	10.00%	10.00%	0.0070	10.00%	6 10.00%	10.00%	10.00%	0.00%	10.00%	10.00%	10.00%	10.00%	0.00%	10.00%	10.00%	10.00%	10.00%	0.00%	10.00%	10.00%	10.00%	10.00%	0.00%	10.00%
3 Total Tax Rate	25.00%	25.00%	25.00%	0.00%	25.00%	<mark>6 25.00%</mark>	25.00%	25.00%	0.00%	25.00%	25.00%	25.00%	25.00%	0.00%	25.00%	25.00%	25.00%	25.00%	0.00%	25.00%	<mark>6 25.00%</mark>	25.00%	25.00%	0.00%	25.00%
Taxable Income (\$M)																									
4 Earnings Before Tax	198.3	171.2	143.7	_	143 7	214.2	152.5	134.7	_	134 7	222.8	160.5	142.7	_	142 7	470.8	413.7	391.1	_	391.1	503.2	383.6	361.6		361.6
5 Adjustments: Additions	857.2	895.2			888.4	905.7	916.9	906.2		906.2	976.8	1,027.6	1,016.9		1 016 9	1,155.4	1,194.1	1,183.4		1.183.4	961.4	1,019.9	1,009.3		1.009.3
6 Adjustments: Deductions	1,036.2	950.9			950.9	1,165.4	1,058.8	1,058.8		1.058.8	1,355.7	1,176.0	1,176.0		1 176 0	1,165.4	1,264.1	1,264.1		1,264.1	1,184.3	1,317.4	1,317.4		1.317.4
7 Tax Loss Carry Over	(19.3)		(34.4)		(34.4	45.5	-	18.0		18.0	156 1	-	16.4		16.4	(182.3)	-	-		-	-	-	-		-
8 Total Taxable Income	0.0	115.5	(011)		46.7	0.0	10.6	0.0	-	0.0	0.0	12.0	0.0	-	0.0	278.4	343.7	310.4	-	310.4	280.2	86.2	53.5	-	53.5
Income Taxes (\$M)																									
9 Federal Income Taxes	0.0	17.3	7.0	-	7.0	0.0	1.6	0.0	-	0.0	0.0	1.8	0.0	-	0.0	41.8	51.6	46.6	-	46.6	42.0	12.9	8.0	-	8.0
10 Provincial Income Taxes	0.0	11.6	4.7	-	4.7	0.0	1.1	0.0	-	0.0	0.0	1.2	0.0	-	0.0	27.8	34.4	31.0	-	31.0	28.0	8.6	5.4	-	5.4
11 Tax Credits (SR&ED Investment)	(18.4)	(18.4)	(18.4)	-	(18.4	(18.4)	(18.4)	(18.4)	-	(18.4)	(18.4)	(18.4)	(18.4)	-	(18.4)) (18.4)	(18.4)	(18.4)	-	(18.4) (18.4)	(18.4)	(18.4)	-	(18.4)
12 Total Income Taxes	(18.4)	10.5	(6.7)	-	(6.7)	') (18.4)	(15.8)	(18.4)	-	(18.4)	(18.4)	(15.4)	(18.4)	-	(18.4)	51.2	67.5	59.2	-	59.2	51.7	3.2	(5.0)	-	(5.0)
Earnings Before Tax (\$M)																									
13 Requested After Tax ROE	150.6	143.9	133.5		133.5	158.2	151.2	136.0	-	136.0	155.3	148.4	133.7	-	133.7	337.5	322.4	308.1	-	308.1	358.4	342.4	328.6	-	328.6
14 Bruce Lease Net Revenues	(66.1)				(16.9)	(74.3)	(17.1)	(17.1)		(17.1)	(85.9)	(27.4)		_	(27.4)	(82.1)	(23.8)			(23.8) (93.1)	(38.1)	(38.1)	_	(38.1)
15 Total Regulatory Income Taxes After Tax Loss Carry-Over	(18.4)		(10.0)		(6.7	(18.4)	(15.8)	(18.4)		(18.4)	(18.4)	(15.4)	(18.4)		(18.4)	51.2	67.5	59.2		59.2	51 7	32	(5.0)		(5.0)
16 Total Earnings Before Tax	198.3		143.7	-	143.7	214.2	152.5	134.7	-	134.7	222.8	160.5	142.7	-	142.7	470.8	413.7	391.1	-	391.1	503.2	383.6	361.6	-	361.6
Adjustments (\$M)																									
Additions																									
16 Depreciation and Amortization	346.9		367.0	-	367.0	378.7	405.7	395.0	-	395.0	384.0	411.0	400.3	-	400.3	524.9	551.9		-	541.2	338.1	327.3	316.7	-	316.7
17 Pension and OPEB Accrual	272.0		291.2	-	291.2	280.4	298.7	298.7	-	298.7	289.5	343.3	343.3	-	343.3	271.3	352.3	352.3	-	352.3	279.9	359.2	359.2	-	359.2
18 Regulatory Liability Amortization - Income and Other Taxes Variance A	Account (2.2)	(2.2)	(2.2)	-	(2.2	(2.2)	(2.2)	(2.2)	-	(2.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Regulatory Asset Amortization - Bruce Regulatory Asset	(24.0)	(24.0)	(24.0)	-	(24.0)) (24.0)	(24.0)	(24.0)	-	(24.0)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Taxable SR&ED Investment Tax Credits	18.4		18.4	-	18.4	18.4	(24.0) 18.4	18.4	-	18.4	18.4	18.4	18.4	-	18.4	18.4	18.4	18.4	-	18.4	18.4	18.4	18.4	-	18.4
21 Adjustment Related to Financing Cost for Nuclear Liabilities	39.6				25.9	37.1	22.1	22.1	-	22.1	34.5	18.3	18.3	_	18.3	31.9	14.5	14.5	-	14.5	30.2	12.4	12.4	-	12.4
22 Nuclear Waste Management Expenses	57.8			-	63.9	59.8	63.2	63.2		63.2	72.1	77.9	77.9	_	77.9	61.9	66.5	66.5	_	66.5	63.1	68.8	68.8		68.8
23 Receipts from Nuclear Segregated Funds	85.0				84.4	108.3	85.7	85.7		85.7	140.0	120.4	120.4		120.4	208.4	152.0	152.0		152.0	191.6	193.7	193.7		193.7
24 Other	63.7	63.7	63.7	_	63.7	49.2	49.2	49.2	_	49.2	38.4	38.4	38.4	_	38.4	38.6	38.6	38.6		38.6	40.2	40.2	40.2	_	40.2
25 Total Additions	857.2	895.2	888.4	-	888.4	905.7	916.9	906.2	-	906.2	976.8	1,027.6	1,016.9	-	1,016.9	1,155.4	1,194.1	1,183.4	-	1,183.4	961.4	1,019.9	1,009.3	-	1,009.3
Deductions																									
26 CCA	394.2				394.2		504.4	504.4		504.4	571.1	571.1	571.1		571.1	001.0	594.8	594.8	-	594.8		597.0	597.0		597.0
27 Cash Expenditures for Nuclear Waste & Decomissioning	166.0	217.5	217.5	-	217.5		227.9	227.9	-	227.9	200.6	232.8	232.8		232.8	230.7	283.6	283.6	-	283.6	228.0	317.0	317.0	-	317.0
28 Contributions to Nuclear Segregated Funds and Earnings	156.1	-	-		-	175.3	-	-		_	265.7	-	-			35.2	-	-	-		35.2	-	-	-	-
29 Pension Plan Contributions	171.1	200.0			200.0	175.5	202.9	202.9	-	202.9	180.3	243.5	243.5		243.5	157.2	247.9	247.9	-	247.9		250.6	250.6	-	250.6
30 OPEB Payments	100.9	91.1		-	91.1	104.9	95.7	95.7		95.7	109.2	99.9	99.9		99.9	114.1	104.3	104.3	-	104.3	117.8	108.5	108.5	-	108.5
31 SR&ED Costs Capitalized for Accounting	27.7		21.1	-	27.7	27.7	27.7	27.7		27.7	27.7	27.7	27.7		27.7	27.7	27.7	27.7	-	27.7	27.7	27.7	27.7	-	27.7
32 Other	20.3	20.3	20.3	-	20.3	0.1	0.1	0.1	-	0.1	1.1	1.1	1.1		1.1	5.7	5.7	5.7	-	5.7	16.5	16.5	16.5	-	16.5
33 Total Deductions	1,036.2	950.9	950.9	-	950.9	1,165.4	1,058.8	1,058.8	-	1,058.8	1,355.7	1,176.0	1,176.0	-	1,176.0	1,165.4	1,264.1	1,264.1	-	1,264.1	1,184.3	1,317.4	1,317.4	-	1,317.4

Numbers may not add due to rounding

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OPG Revenue Requirement

												Ν	uclear Facilities	S											
			2017					2018					2019					2020					2021		
Line	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB
No. Description	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved
	(a)	(b)	(b)	(C)	(d)	(e)	(f)	(f)	(g)	(h)	(i)	(j)	(j)	(k)	(I)	(m)	(n)	(n)	(0)	(p)	(q)	(r)	(r)	(s)	(t)
Cost of Capital (\$M)																									
1 Short-term Debt*	0.9	0.9	0.9	(0.0)	0.8	1.1			(0.0)	1.0	1.2	1.2	1.1	(0.0)	1.1	1.9	1.9	1.9	(0.0)	1.8		1.9		· · · · · · · · · · · · · · · · · · ·	
2 Long-Term Debt	82.8	82.8	76.8		76.8	81.9		73.6	0.0	73.6	79.0	79.0	71.2	0.0	71.2	170.9	170.9	163.3	0.0	163.3		181.0	173.7	0.0	173.7
3 ROE	150.6	143.9	133.5		133.5	158.2		136.0	0.0	136.0	155.3	148.4	133.7	0.0	133.7	337.5	322.4	308.1	0.0	308.1		342.4	328.6	0.0	328.6
4 Adjustment for Lesser of UNL/ARC	39.6	25.9	25.9		25.9	37.1	22.1	22.1	0.0	22.1	34.5	18.3	18.3	0.0	18.3	31.9		14.5	0.0	14.5		12.4	12.4	0.0	12.4
5 Total	273.9	253.5	237.1	(0.0)	237.1	278.2	256.2	232.7	(0.0)	232.7	270.1	246.9	224.2	(0.0)	224.2	542.1	509.6	487.7	(0.0)	487.7	571.5	537.7	516.5	(0.0)	516.4
Expenses (\$M)																									
Expenses (\$M) 6 OM&A	2 219 6	2,346.0	2,346.0	0.0	2,346.0	2,327.1	2,351.4	2,351.4	0.0	0.051.4	2,347.9	2,425.1	2,425.1	0.0	0 405 4	2 269 0	2 460 0	2 460 0	0.0	2 460 0	2,248.7	2,349.1	2,349.1	0.0	2,349.1
7 Fuel	2,318.6 219.9	2,340.0	2,340.0		2,340.0	2,327.1		2,351.4	0.0 0.0	2,351.4 219.9	2,347.9	2,425.1	232.1	0.0	2,425.1 232.1	2,368.0 228.2	2,469.0 224.4	2,469.0 224.4	0.0 0.0	2,469.0 224.4		2,349.1	2,349.1	0.0 0.0	2,349.1
8 Depreciation/Amortization	346.9	373.9	367.0		367.0	378.7	405.7	395.0	0.0	395.0	384.0	411.0	400.3	0.0	400.3	524.9	551.9	541.2	0.0	541.2		327.3	316.7	0.0	316.7
9 Property Taxes	14.6	14.6	14.6		14.6	14.9		14.9	0.0	14.9	15.3	15.3	15.3	0.0	15.3	15.7		15.7	0.0	15.7		17.0	17.0	0.0	17.0
10 Total	2,900.0	2,952.6	2,945.8		2,945.8	2,942.8		2,981.2	0.0	2,981.2	2,980.3	3,083.5	3,072.8	0.0	3,072.8	3,136.7	3,261.0	3,250.3	0.0	3,250.3		2,902.5	2,891.8	0.0	2,891.8
		•			,					,		•	,		_ ,	· · ·		,			· · · ·	•	· · ·		,
Other Revenues (\$M)																									
11 Bruce Lease Net Revenues	(66.1)	(16.9)			(16.9)	(74.3)		(17.1)	0.0	(17.1)	(85.9)	(27.4)	(27.4)	0.0	(27.4) (82.1)		(23.8)	0.0	(23.8	(93.1)	(38.1)	(38.1)	0.0	(38.1)
12 Ancillary and Other Revenue	31.7	31.7	31.7	0.0	31.7	22.0		22.0	0.0	22.0	22.7	22.7	22.7	0.0	22.7	22.2	22.2	22.2	0.0	22.2		22.9	22.9	0.0	22.9
13 Total	(34.5)	14.8	14.8	0.0	14.8	(52.4)	4.9	4.9	0.0	4.9	(63.2)	(4.7)	(4.7)	0.0	(4.7	(59.9)	(1.6)	(1.6)	0.0	(1.6	(70.2)	(15.1)	(15.1)	0.0	(15.1)
14 Regulatory Income Tax (\$M)	(18.4)	10.5	(6.7)	0.0	(6.7)	(18.4)	(15.8)	(18.4)	0.0	(18.4)	(18.4)	(15.4)	(18.4)	0.0	(18 /	51.2	67.5	59.2	0.0	59.2	51.7	3.2	(5.0)	0.0	(5.0)
	(18.4)	10.5	(0.7)	0.0	(0.7)	(10.4)	(13.0)	(10.4)	0.0	(10.4)	(10.4)	(13.4)	(10.4)	0.0	(10.4) <mark> </mark>	07.5	55.2	0.0		51.7	5.2	(3.0)	0.0	(3.0)
15 Revenue Requirement (\$M)	3,189.9	3,201.8	3,161.4	(0.0)	3,161.4	3,255.0	3,227.5	3,190.7	(0.0)	3,190.6	3,295.1	3,319.8	3,283.4	(0.0)	3,283.3	3,790.0	3,839.8	3,798.8	(0.0)	3,798.8	3,509.8	3,458.4	3,418.4	(0.0)	3,418.3

* Uses Principal Rate Base Financed by Capital Structure from C1-1-1, Tables 1-5

Numbers may not add due to rounding

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OPG Revenue Requirement Deficiency / (Sufficiency)

												Nucle	ar Facilities												
			2017					2018					2019					2020					2021		
Line	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	OEB	OEB
No. Description	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved
	(a)	(b)	(b)	(C)	(d)	(e)	(f)	(f)	(g)	(h)	(i)	(j)	(j)	(k)	(I)	(m)	(n)	(n)	(0)	(p)	(q)	(r)	(r)	(S)	(t)
Production & Revenue																									
1 Forecast Production (TWh)	38.1	38.1	38.1	0.0	38.1	38.5	38.5	38.5	0.0	38.5	39.0	39.0	39.0	0.0	39.0	37.4	37.4	37.4	0.0	37.4	35.4	35.4	35.4	0.0	35.4
2 Current Payment Rate (\$/MWh)	59.29	59.29	59.29	0.00	59.29	59.29	59.29	59.29	0.00	59.29	59.29	59.29	59.29	0.00	59.29	59.29	59.29	59.29	0.00	59.29	59.29	59.29	59.29	0.00	59.29
3 Revenue From Current Payment Rate (\$M)	2,258.9	2,258.9	2,258.9	0.0	2,258.9	2,280.9	2,280.9	2,280.9	0.0	2,280.9	2,313.9	2,313.9	2,313.9	0.0	2,313.9	2,214.8	2,214.8	2,214.8	0.0	2,214.8	2,097.9	2,097.9	2,097.9	0.0	2,097.9
Revenue Requirement																									
4 Revenue Requirement (\$M)	3,189.9	3,201.8	3,161.4	(0.0)	3,161.4	3,255.0	3,227.5	3,190.7	(0.0)	3,190.6	3,295.1	3,319.8	3,283.4	(0.0)	3,283.3	3,790.0	3,839.8	3,798.8	(0.0)	3,798.8	3,509.8	3,458.4	3,418.4	(0.0)	3,418.3
5 Revenue Requirement Deficiency (Sufficiency) (\$M)	931.1	943.0	902.5	(0.0)	902.5	974.0	946.6	909.7	(0.0)	909.7	981.2	1,005.9	969.5	(0.0)	969.5	1,575.2	1,625.0	1,584.0	(0.0)	1,584.0	1,411.9	1,360.6	1,320.5	(0.0)	1,320.5

Numbers may not add due to rounding

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																Hydroelectri	ic Facilities														
					17						18					20 1	19					202	0					202	21		
Line		OPG Proposed	N1 Update	•	N3 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	N3 Update	OEB	OEB	OPG Proposed	-	•	N3 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	N3 Update	OEB	OEB	OPG Proposed			N3 Update	OEB	OEB
No.	Description	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved
		(a)	(b)	(b)	(C)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)	(n)	(0)	(p)	(q)	(r)	(S)	(t)	(u)	(V)	(w)	(x)	(y)	(Z)	(aa)	(bb)	(cc)
1	Requested Payment Amount (\$/MWh)	41.71	41.71	41.71	41.71		41.71	42.33	42:33	42:33	42.33	· · · · · · · · · · · · · · · · · · ·	42.33	42.97	42.97	42.97	42.97		42.97	43.61	43.61	43.61	43.61		43.61	44.27	44.27	44.27	44.27		44.27
		-						•						•																	
																Nuclear F	Facilities														
				20	17				-	-	18					201	19				-	202	0					202	21	-	
Line		OPG Proposed	N1 Update	N2 Update	N3 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	N3 Update	OEB	OEB	OPG Proposed		N2 Update	N3 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	N3 Update	OEB	OEB	OPG Proposed	N1 Update	N2 Update	N3 Update	OEB	OEB
No.	Description	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved	5/27/2016	12/19/2016	2/17/2017	3/8/2017	Adjustment	Approved
		(a)	(b)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(Z)	(aa)	(bb)	(cc)
2	Revenue Requirement (\$M)	3,189,9	3.201.8	3,161,4	3,161,4	(0,0)	3,161,4	3,255,0	3.227.5	3,190,7	3,190,7	(0.0)	3.190.6	3,295,1	3.319.8	3,283,4	3,283,4	(0,0)	3.283.	3 3,790.0	3.839.8	3,798,8	3,798.8	(0.0)	3.798.8	3,509,8	3,458,4	3,418.4	3,418.4	(0.0)	3.418.3
			-,	-,	-,	(0.0)	-,	_,	-,	-,	-,	(010)	-,	-,	-,	-,	-,		-,		-,	-,	-,	(0.0)	-,	-,	-,	-,	-,	(0.0)	
3	Stretch Adjustment (\$M)	N/A	N/A	N/A	N/A		0.0	5.0	5.0	5.0	5.0		5.0	10.1	10.2	10.2	10.2	0.0	10.	2 15.2	15.3	15.3	15.3	0.0	15.3	20.4	20.6	20.6	20.6	0.0	20.6
4	Forecast Production (TWh)	38.1	38.1	38.1	38.1	0.0	38.1	38.5	38.5	38.5	38.5	0.0	38.5	39.0	39.0	39.0	39.0	0.0	39.	0 37.4	37.4	37.4	37.4	0.0	37.4	35.4	35.4	35.4	35.4	0.0	35.4
5	Insmoothed Payment Amount (\$/MWh)	83.7	84.0	83.0	83.0	(0.0)	83.0	84.5	83.8	82.8	82.8	(0.0)	82.8	84.2	84.8	83.9	83.9	(0.0)	83.	9 101.1	102.4	101.3	101.3	(0.0)	101.3	98.6	97.2	96.0	96.0	(0.0)	96.0
6	Smoothed Payment Amount ¹	65.8	65.8	65.8	76.4		76.4	73.1	73.1	73.1	78.6		78.6	81.1	81.1	81.1	84.8	0.0	84.	8 90.0	90.0	90.0	88.2	0.0	88.2	99.9	99.9	99.9	92.0	0.0	92.0

Numbers may not add due to rounding 1: Using WAPA mehod beginning with N3 Update Filed: 2017-03-08 EB-2016-0152 Exhibit N3 Tab 1, Schedule 1 Attachment 3 Page 10 of 12

OPG Recovery of Deferral and Variance Accounts and Riders

			Previously Reg	ulated Hydroele	ctric Facilities	
			Amo	ortization 2017/20)18	
Line		OPG Proposed	N1 Update	N2 Update	OEB	OEB
No.	Description	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved
		(a)	(b)	(b)	(C)	(d)
Varianc	e Accounts (\$M)					
1	Hydroelectric Water Conditions Variance	(17.3)	(17.3)	(17.3)	0.0	(17.3)
2	Ancillary Services Net Revenue Variance - Hydroelectric	(13.2)	(13.2)	(13.2)	0.0	(13.2)
3	Hydroelectric Incentive Mechanism Variance	(0.1)	(0.1)	(0.1)	0.0	(0.1)
4	Hydroelectric Surplus Baseload Generation Variance	82.5	82.5	82.5	0.0	82.5
5	Income and Other Taxes Variance - Hydroelectric	(0.0)	(0.0)	(0.0)	0.0	(0.0)
6	Capacity Refurbishment Variance - Hydroelectric	3.3	3.3	3.3	0.0	3.3
7	Pension and OPEB Cost Variance - Hydroelectric - Future	2.1	2.1	2.1	0.0	2.1
8	Pension and OPEB Cost Variance - Hydroelectric - Post 2012 Additions	11.8	11.8	11.8	0.0	11.8
9	Pension & OPEB Cash Payment Variance - Hydroelectric	4.3	4.3	4.3	0.0	4.3
10	Hydroelectric Deferral and Variance Over/Under Recovery Variance	13.5	13.5	13.5	0.0	13.5
11	Total	86.8	86.8	86.8	0.0	86.8
12	2015 Actual Production (divided by 12, multiplied by 24) (TWh)	60.5	60.5	60.5	N/A	60.5
13	Rider (\$/MWh) (Line 12 / Line 13)	1.44	1.44	1.44	0.0	1.44

			Ν	Iuclear Facilities	•	
			Amo	ortization 2017/2	018	
Line		OPG Proposed	N1 Update	N2 Update	OEB	OEB
No.	Description	5/27/2016	12/19/2016	2/17/2017	Adjustment	Approved
	·	(a)	(b)	(b)	(C)	(d)
Variance	e Accounts (\$M)					
14	Nuclear Development Variance	1.7	1.7	1.7	0.0	1.7
15	Ancillary Services Net Revenue Variance - Nuclear	1.0	1.0	1.0	0.0	1.0
16	Capacity Refurbishment Variance - Nuclear - Capital Portion	(37.6)	(37.6)	(37.6)	0.0	(37.6)
17	Capacity Refurbishment Variance - Nuclear - Non-Capital Portion	(31.6)	(31.6)	(31.6)	0.0	(31.6)
18	Bruce Lease Net Revenues Variance - Derivative Sub-Account	(68.6)	(68.6)	(68.6)	0.0	(68.6)
19	Bruce Lease Net Revenues Variance - Non-Derivative Sub-Account - Post 2012 Additions	20.6	20.6	20.6	0.0	20.6
20	Income and Other Taxes Variance - Nuclear	(4.3)	(4.3)	(4.3)	0.0	(4.3)
21	Pension and OPEB Cost Variance - Nuclear - Future	42.9	42.9	42.9	0.0	42.9
22	Pension and OPEB Cost Variance - Nuclear - Post 2012 Additions	226.2	226.2	226.2	0.0	226.2
23	Pension & OPEB Cash Payment Variance - Nuclear	23.4	23.4	23.4	0.0	23.4
24	Nuclear Deferral and Variance Over/Under Recovery Variance	44.1	44.1	44.1	0.0	44.1
25	Total	217.9	217.9	217.9	0.0	217.9
26	Forecast Production (TWh)	76.6	76.6	76.6	0.0	76.6
27	Rider (\$/MWh) (Line 28 / Line 29)	2.85	2.85	2.85	0.0	2.85

Numbers may not add due to rounding

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OPG Customer Bill Impacts														Residential Consu	sumers													
		2013-0321/2014-0	0370 >> EB-2016-0152	2				EB-2016-015	52					EB-2016-0152						EB-2016-015	2					EB-2016-01	52	
Line No. Description	OPG Proposed N1 Upda 5/27/2016 12/19/20		N3 Update 3/8/2017	OEB Adjustment	OEB O Approved	PG Proposed N 5/27/2016 1 (f)	N1 Update	2018 N2 Update N 2/17/2017 3 (h) 3	N3 Update 3/8/2017	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016 (m)		3 Update 3/8/2017	OEB Adjustment	OEB OI Approved		N1 Update 12/19/2016	Z020 N2 Update N3 2/17/2017 3 (1) 3	3 Update 3/8/2017	OEB Adjustment	OEB Approved (w)	OPG Proposed 5/27/2016	N1 Update 12/19/2016	N2 Update 2/17/2017	N3 Update 3/8/2017 A (aa)	OEBOEBdjustmentApproved(bb)(cc)
 Production and Demand 1 Typical Usage, including Line Losses¹ (kWh/Month) 2 Forecast Production (TWh) 3 IESO Forecast Provincial Demand² (TWh) 4 OPG Proportion of Consumer Usage (line 2 / line 3) 5 Typical Usage of OPG Generation (kWh/Month) (line 1 x line 4) 6 Typical Bill¹ (\$/Month) 	789.4 68.3 137.6 49.7% 392	789.4 789. 68.3 68. 137.6 137. 49.7% 49.7 392 39 150.58 150.5	.3 71.1 .6 137.6 .% 51.7% .2 408	(u) n/a - n/a - n/a	(e) 789.4 71.1 137.6 51.7% 408 150.58	(1) 789.4 68.7 137.6 49.9% 394 150.58	(9) 789.4 68.7 137.6 49.9% 394 150.58	(II) 789.4 68.7 137.6 49.9% 394 150.58	(I) 789.4 71.4 137.6 51.9% 410 150.58	0) n/a - n/a - n/a	(K) 789.4 71.4 137.6 51.9% 410 150.58	() 789.4 69.3 137.6 50.3% 397 150.58	789.4 69.3 137.6 50.3% 397 150.58	789.4 69.3 137.6 50.3% 397 150.58	(0) 789.4 72.0 137.6 52.3% 413 150.58	(p) n/a - n/a - n/a	(4) 789.4 72.0 137.6 52.3% 413 150.58	(7) 789.4 67.6 137.6 49.1% 388 150.58	(3) 789.4 67.6 137.6 49.1% 388 150.58	(1) 789.4 67.6 137.6 49.1% 388 150.58	(u) 789.4 70.3 137.6 51.1% 403 150.58	(v) n/a - n/a - n/a	(w) 789.4 70.3 137.6 51.1% 403 150.58	(X) 789.4 65.6 137.6 47.7% 376 150.58	(y) 789.4 65.6 137.6 47.7% 376 150.58	(2) 789.4 65.6 137.6 47.7% 376 150.58	(aa) 789.4 68.4 137.6 49.7% 392 150.58	n/a 789.4 n/a 789.4 - 68.4 n/a 137.6 0.0% 49.7% - 392 n/a 150.58
 Production-Weighted Average Rates 7 Prior Year weighted average rate with proposed payment amounts and riders (\$/MWh) 8 Current Year weighted average rate with proposed payment amounts and riders (\$/MWh) 	60.66 57.37	60.66 60.6 57.37 57.3	6 60.97 7 62.49	-	60.97 62.49	57.37 61.76	57.37 61.76	57.37 61.76	62.49 64.06	-	62.49 64.06	61.76 64.45	61.76 64.45	61.76 64.45	64.06 65.66	-	64.06 65.66	64.45 69.26	64.45 69.26	64.45 69.26	65.66 67.30	-	65.66 67.30	69.26 74.27	69.26 74.27	69.26 74.27	67.30 68.98	- 67.30 - 68.98
Impact 9 Typical Bill Impact (\$/Month) 10 Percentage Change of Typical Bill (line 9 / line 6)	(1.29) -0.9%	(1.29) (1.2 -0.9% -0.9	9) 0.62 % 0.4%		0.62 0.4%	1.73 1.1%	1.73 1.1%	1.73 1.1%	0.64 0.4%	- 0.0%	0.64 0.4%	1.07 0.7%	1.07 0.7%	1.07 0.7%	0.66 0.4%	- 0.0%	0.66 0.4%	1.86 1.2%	1.86 1.2%	1.86 1.2%	0.66 0.4%	- 0.0%	0.66 0.4%	1.89 1.3%	1.89 1.3%	1.89 1.3%	0.66 0.4%	- 0.66 0.0% 0.4%
			21/2014-0370 rent Rates																									
Line Description No.	OPG Proposed N1 Upda 5/27/2016 12/19/20	ate N2 Update	2017 N3 Update	OEB Adjustment	OEB Approved																							
Payment Amounts (\$MWh) 11 Regulated Hydroelectric 12 Nuclear	(a) (b) 40.72 59.29	(b) 40.72 40.7 59.29 59.2	(c) 2 40.72 29 59.29	(d) n/a	(e) 40.72 59.29																							
Riders (\$MWh) 13 Regulated Hydroelectric 14 Nuclear	3.83 13.01	3.83 3.8 13.01 13.0	3 3.83 1 13.01		3.83 13.01																							
Total Annual Rates (\$MWh) 15 Regulated Hydroelectric 16 Nuclear	44.55 72.30	44.55 44.5 72.30 72.3			44.55 72.30																							
Forecast Production EB-2016-0152 (TWh) 17 Regulated Hydroelectric 18 Nuclear 19 Total	33.8 46.8 80.6	33.8 33. 46.8 46. 80.6 80.	11.0		32.98 47.8 80.8																							
Production-Weighted Average Rates (\$MWh) 20 Regulated Hydroelectric 21 Nuclear 22 Total (line 20 + line 21)	18.69 41.97 60.66	18.69 18.6 41.97 41.9 60.66 60.6		n/a - -	18.19 42.78 60.97																							
23 Total Production-Weighted Average Rate (\$MWh)	60.66	60.66 60.6	6 60.97	•	60.97																							
			2016-0152 osed Rates					EB-2016-015 Proposed Rate						EB-2016-0152 Proposed Rate						EB-2016-015 Proposed Rate						EB-2016-01 Proposed Ra		
Line Description No.	OPG Proposed N1 Upda 5/27/2016 12/19/20		2017	OEB Adjustment	OEB O Approved	PG Proposed N 5/27/2016 1	N1 Update	2018	N3 Update	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	2019	13 Update	OEB Adjustment	OEB OI Approved	PG Proposed 5/27/2016	N1 Update 12/19/2016	2020	3 Update	OEB Adjustment	OEB Approved	OPG Proposed 5/27/2016	N1 Update 12/19/2016	2021		OEB OEB djustment Approved
Payment Amounts (\$MWh) 24 Regulated Hydroelectric 25 Nuclear	41.71 65.81	41.71 41.7 65.81 65.8	(c) (1 41.71 (1 76.39	(u) - -	41.71 76.39	42.33 73.05	42.33 73.05	42.33 73.05	42.33 78.60	-	42.33 78.60	42.97 81.09	42.97 81.09	42.97 81.09	42.97 84.83	(P) - -	42.97 84.83	43.61 90.01	43.61 90.01	43.61 90.01	43.61 88.21	(v) - -	43.61 88.21	(×) 44.27 99.91	(y) 44.27 99.91	(2) 44.27 99.91	44.27 92.02	(bb) (cc) - 44.27 - 92.02
Riders (\$MWh) 26 Regulated Hydroelectric 27 Nuclear	1.44 2.85	1.441.42.852.8	4 1.44 5 2.85	-	1.44 2.85	1.44 2.85	1.44 2.85	1.44 2.85	1.44 2.85	-	1.44 2.85																	
Total Annual Rates (\$MWh) 28 Regulated Hydroelectric 29 Nuclear	43.14 68.66	43.14 43.1 68.66 68.6	4 43.14 6 79.24	-	43.14 79.24	43.77 75.90	43.77 75.90	43.77 75.90	43.77 81.45	-	43.77 81.45	42.97 81.09	42.97 81.09	42.97 81.09	42.97 84.83	-	42.97 84.83	43.61 90.01	43.61 90.01	43.61 90.01	43.61 88.21	- -	43.61 88.21	44.27 99.91	44.27 99.91	44.27 99.91	44.27 92.02	- 44.27 - 92.02
Forecast Production EB-2016-0152 (TWh)30Regulated Hydroelectric31Nuclear32Total	30.2 38.1 68.3	30.2 30. 38.1 38. 68.3 68.	2 33.0 1 38.1 3 71.1	n/a - -	32.98 38.1 71.1	30.2 38.5 68.7	30.2 38.5 68.7	30.2 38.5 68.7	33.0 38.5 71.4	n/a - -	32.98 38.5 71.4	30.2 39.0 69.3	30.2 39.0 69.3	30.2 39.0 69.3	33.0 39.0 72.0	n/a - -	32.98 39.0 72.0	30.2 37.4 67.6	30.2 37.4 67.6	30.2 37.4 67.6	33.0 37.4 70.3	n/a - -	32.98 37.4 70.3	30.2 35.4 65.6	30.2 35.4 65.6	30.2 35.4 65.6	33.0 35.4 68.4	n/a 32.98 - 35.4 0 68.4
Production-Weighted Average Rates (\$MWh) 33 Regulated Hydroelectric 34 Nuclear 35 Total (line 20 + line 21)	19.09 38.28 57.37	19.09 19.0 38.28 38.2 57.37 57.3	9 20.02 8 42.47 67 62.49	n/a - -	20.02 42.47 62.49	19.26 42.50 61.76	19.26 42.50 61.76	19.26 42.50 61.76	20.20 43.85 64.06	n/a _ _	20.20 43.85 64.06	18.75 45.70 64.45	18.75 45.70 64.45	18.75 45.70 64.45	19.68 45.98 65.66	n/a _ _	19.68 45.98 65.66	19.51 49.75 69.26	19.51 49.75 69.26	19.51 49.75 69.26	20.45 46.85 67.30	n/a - -	20.45 46.85 67.30	20.39 53.88 74.27	20.39 53.88 74.27	20.39 53.88 74.27	21.35 47.63 68.98	n/a 21.35 - 47.63 - 68.98
36 Total Production-Weighted Average Rate (\$MWh)	57.37	57.37 57.3	62.49	-	62.49	61.76	61.76	61.76	64.06	-	64.06	64.45	64.45	64.45	65.66	-	65.66	69.26	69.26	69.26	67.30	-	67.30	74.27	74.27	74.27	68.98	- 68.98
Numbers may not add due to rounding Notes:																												

Notes: 1 Typical monthly consumption (750 kWh) and typical monthly bill are based on the OEB "Bill Calculator" for estimating monthly electricity bills (using Time of Use pricing), available at: http://www.ontarioenergyboard.ca/OEB/Consumers/Electricity/Your+Electricity+UtilityTypical Consumption includes line losses (Assumed loss factor of 1.0525) 2 Based on forecast demand for 2017 (137.6 TWh) from Table 3.1 of IESO 18-Month Outlook Update for April 2016 to September 2017, published March 22, 2016.