

**Ontario Energy Board**

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

**AND IN THE MATTER OF** an application by Ontario Power Generation Inc. (OPG) under Section 78 of the OEB Act to the Ontario Energy Board for an Order or Orders approving payment amounts for its prescribed generating facilities between 2017 and 2021.

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**Argument and Submissions of**

**ONTARIO ASSOCIATION OF PHYSICAL PLANT ADMINISTRATORS  
("OAPPA")**

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**May 29<sup>th</sup>, 2017**

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1    **1.0 INTRODUCTION**

2    These submissions are made on behalf of the Ontario Association of Physical Plant  
3    Administrators (“OAPPA”). OAPPA is a non-profit organization representing Ontario’s  
4    20 universities, who collectively consume more than 1 TWh of electricity annually while  
5    operating efficient campuses as needed to sustain the pursuit of higher learning and  
6    post-secondary education in the province.

7    Approximately ½ of OAPPA’s electricity is supplied from Ontario Power Generation’s  
8    (“OPG’s”) regulated hydraulic and nuclear facilities and therefore the financial  
9    consequences of this Application are significant to OAPPA, inclusive of the early stages  
10   of a C\$12.8B capital refurbishment project of the Darlington Nuclear Generating Station  
11   (“DNGS”) and a \$16.8B nuclear revenue requirement during the 2017 to 2021 period.

12   In preparing these submissions, we have notably benefited from both the Staff’s  
13   comprehensive submissions and from the collaborative efforts of many of our fellow  
14   intervenors to this Application. We have subsequently endeavoured to avoid duplication  
15   and to more efficiently utilize scarce intervenor resources available for the analysis of  
16   this large and complex Application.

17   We have also elected to defer to the government’s authority, specific to Ontario  
18   Regulation 53/05 in our further consideration of the Application’s issues and our  
19   submissions accordingly. These submissions therefore focus on the components not  
20   otherwise knowingly duplicated by others, but which OAPPA still deems need be  
21   adjusted to ensure that the Applicant’s rates for the next 5 years are just and  
22   reasonable.

23 **5.0 NUCLEAR PRODUCTION FORECAST**

24 **5.1 Background**

25 **Issue 5.1 (Primary) - Is the proposed nuclear production forecast appropriate?**

26 OPG’s proposed test period (2017-2021) production forecast is presented in the table  
 27 below:

<b>Nuclear Production Forecast</b>						
	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>Total (2017- 2021)</b>
Pickering (TWh)	19.1	19.2	19.4	19.6	18.8	96.1
Darlington (TWh)	19.0	19.3	19.7	17.7	16.6	92.3
Total Production (TWh)	38.1	38.5	39.1	37.3	35.4	188.4

28 The total nuclear production forecast for the period 2017 to 2021 is 188.4 TWh.

29 OPG’s proposed outage schedule for Darlington NGS (only) for the test period (2017-  
 30 2021), as underpins the above production forecast table is summarized in the following  
 31 table:

<b>Nuclear Outage Schedule and Production Impact</b>						
<b>Year</b>	<b>Outage Reference</b>	<b>Unit Affected</b>	<b>Description</b>	<b>Outage Duration (Days)</b>	<b>Forecast Production (TWh) Impact Due to Outage</b>	<b>Revenue Impact of Outage (\$M)</b>
2017	D1711	Unit 1	Planned Outage	108.4	2.3	177.5
	DNRU2	Unit 2	Refurbishment Outage	365	7.8	597.6
	D1731-PD	Unit 3	Planned Derate	2.5	0.1	4.1
	D1732	Unit 3	PHT Pump Motor Outage	20	0.4	32.7
	D1741-PD	Unit 4	Planned Derate	2.5	0.1	4.1
	D1742	Unit 4	PHT Pump Motor Outage	20	0.4	32.7

<b>Nuclear Outage Schedule and Production Impact</b>						
Year	Outage Reference	Unit Affected	Description	Outage Duration (Days)	Forecast Production (TWh) Impact Due to Outage	Revenue Impact of Outage (\$M)
	Total (2017)			518.4	11.1	848.7
2018	D1811	Unit 1	PHT Pump Motor Outage	20	0.4	33.7
	DNRU2	Unit 2	Refurbishment Outage	365	7.8	614.9
	D1831	Unit 3	Planned Outage	103.3	2.2	174
	D1841	Unit 4	PHT Pump Motor Outage	20	0.4	33.7
		Total (2018)			508.3	10.9
2019	D1911	Unit 1	PHT Pump Motor Outage	20	0.4	36.4
	D1912 -PD	Unit 1	Planned Derate	2.5	0.1	4.5
	DNRU2	Unit 2	Refurbishment Outage	365	7.8	663.6
	P1931 -PD	Unit 3	Planned Derate	2.5	0.1	4.5
	D1941	Unit 4	Planned Outage	99.1	2.1	180.2
		Total (2019)			489.1	10.5
2020	D2011	Unit 1	Planned Outage	108.2	2.3	204.6
	DNRU2	Unit 2	Refurbishment Outage	45	1	85.1
	D2022-PD	Unit 2	Planned Derate	2.5	0.1	4.7
	D2021	Unit 2	Post Refurb Mini Outage	55	1.2	104
	DNRU3	Unit 3	Refurbishment Outage	321	6.9	606.9
	D2042-PD	Unit 4	Planned Derate	2.5	0.1	4.7
	D2041	Unit 4	PHT Pump Motor Outage	20	0.4	37.8
		Total (2020)			554.2	11.9
2021	DNRU1	Unit 1	Refurbishment Outage	200	4.3	394.4
	D2121	Unit 2	Post Refurb Mini Outage	31.2	0.7	61.5
	D2122-PD	Unit 2	Planned Derate	2.5	0.1	4.9
	DNRU3	Unit 3	Refurbishment Outage	365	7.8	719.8
	D2142-PD	Unit 4	Planned Derate	2.5	0.1	4.9
	D2141	Unit 4	PHT Pump Motor Outage	20	0.4	39.4
	Total (2021)			621.2	13.3	\$1,225
Total for the Test Period (2017 to 2021)				2,691.2	57.7	\$4,867

32 OPG's proposed Darlington NGS (only) total reduction to the nuclear production  
33 forecast for the test period 2017 to 2021, due to planned outages is 57.7 TWh; this

34 further equates to lost revenue (and therefore additional rate payer cost) of \$4.867  
35 Billion.

## 36 **5.2 OAPPA Submission**

37 It is OAPPA's assessment that OPG's scheduling of certain outages, particularly those  
38 for the Darlington NGS Primary Heat Pump (PHT) Motor replacements are not being  
39 done in parallel with numerous other planned outages scheduled during (and beyond)  
40 the test period, that would reduce production losses. OAPPA submits that the OEB  
41 should increase the nuclear production forecast for Darlington NGS (DNGS) production  
42 forecast by no less than 2.95 TWh<sup>1</sup> for the test period.

### 43 *DNGS PHT Pump Replacement Outages - Alternative Planning Options*

44 OAPPA acknowledges OPG's requirement to replace the PHT pumps, but is unsettled  
45 that the unexpected 2015 failure of the precipitating unit had not been preceded by  
46 routine testing, analysis or maintenance reporting which would arguably have seen  
47 replacements initiated, on a planned-basis, prior to the current period(s). While the  
48 absence of prior-period assessment and planning might suggest a measure of  
49 accountability on OPG's part, the plethora of other planned outages during the test  
50 period affords OPG with an opportunity to re-schedule the PHT pumps concurrently  
51 such that there are no additional production losses.

52 OAPPA suggests that there are 2 alternative PHT pump replacement planned outage  
53 scheduling options, as follows:

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<sup>1</sup> Tr Vol 15 pages 121, line 12.

- 54 • Re-schedule the PHT pump replacements to occur concurrently with their  
55 specific Unit's Refurbishment, as proposed under the DRP, or
- 56 • Alter the PHT Pump Replacement outages to align concurrently with the  
57 individual Units' 100 day, 3-year mandated CNSC planned Routine Outage  
58 schedule(s).

59 The following table summarizes OPG's currently proposed DRP, PHT Pump and  
60 Planned Unit Outage schedule during the test period:

	2017	2018	2019	2020	2021
<b>Routine Outages</b> (Unit, Outage Number and Days)	Unit 1 (D1711, 108 days)	Unit 3 (D1831, 103 days)	Unit 4 (D1941, 99 days)	Unit 1 (D2011, 108 days)	None
<b>DRP</b> (Unit, Outage Number and Days)	Unit 2 (DNRU2, 365 days)	Unit 2 (DNRU2, 365 days)	Unit 2 (DNRU2, 365 days)	Unit 2 (DNRU2, 45 days)	Unit 1 (DNRU1, 200 days)
				Unit 3 (DNRU3, 321 days)	Unit 3 (DNRU3, 364 days)
<b>PHT Outage</b> (Unit, Outage Number and Days)	Unit 3 (D1732, 20 days)	Unit 1 (D1811, 20 days)	Unit 1 (D1911, 20 days)	Unit 4 (D2041, 20 days)	Unit 4 (D2141, 20 days)
	Unit 4 (D1742, 20 days)	Unit 4 (D1841, 20 days)			
PHT Outage (TWh)	0.84275	0.84275	0.421375	0.421375	0.421375

61 An alternative PHT Pump Outage schedule is depicted in the following table, which  
62 includes the anticipated increases in the DNGS production forecast and expected  
63 revenue to OPG (and elimination of rate payer costs):

	2017	2018	2019	2020	2021
<b>Routine Outages</b> (Unit, Outage Number and Days)	Unit 1 (D1711, 108 days)	Unit 3 (D1831, 103 days)	Unit 4 (D1941, 99 days)	Unit 1 (D2011, 108 days)	None
<b>DRP</b> (Unit, Outage Number and Days)	Unit 2 (DNRU2, 365 days)	Unit 2 (DNRU2, 365 days)	Unit 2 (DNRU2, 365 days)	Unit 2 (DNRU2, 45 days)	Unit 1 (DNRU1, 200 days)
				Unit 3 (DNRU3, 321 days)	Unit 3 (DNRU3, 364 days)
<b>(OAPPA-Suggested) PHT Outage</b> (Unit, Outage Number and Days)	Unit 1 (D1811, 20 days)	Unit 3 (D1732, 20 days)	Unit 4 (D1742, 20 days)	<b>Optional Unit1 Outages</b> (either D1911, 20 days or D1811, 20 days is not completed in 2017)	
			Unit 4 (D2041, 20 days)		
	Unit 1 (D1911, 20 days)		Unit 4 (D1841, 20 days)		
			Unit 4 (D2141, 20 days)		
Increase in Proposed Production Forecast (TWh)	0.84275	0.84275	0.421375	0.421375	0.421375
Increase in Production Revenue (Rate Payer Savings)	\$ 65.4M	\$ 67.4M	\$ 36.4M	\$ 37.8M	\$ 39.4M

64 If the 20 day, PHT Pump replacements are started concurrently with their respective  
65 Unit's Routine Outages<sup>2</sup>, which range in longer durations of between 99 and 108 days,  
66 there is no requirement for additional outage time beyond that of the Routine Outage.  
67 As demonstrated by the above table, OAPPA believes that OPG's rescheduling of the  
68 PHT Outages is achievable and would still provide further optional flexibility, for  
69 example by the optional scheduling of the D1911 or D1811 outages in 2019 if, or as,

<sup>2</sup> In the instance of Unit 4 PHT outages, resource constraints might not allow concurrent replacement of all pumps, but could still be completed consecutively, within the 99 day duration of Routine Outage D1941.



70 required. Additionally, OAPPA remains unconvinced of the prioritization given by OPG  
71 in its original (proposed) scheduling of the proposed PHT pump outages.

72 *DNGS PHT Pump Replacement Outages – Financial Impact to Rate Payers*

73 OAPPA is concerned with the current planning of all nuclear outages as it recognizes  
74 that the OEB will approve an annual revenue requirement for OPG independently of its  
75 actual production commitments. OPG is seeking approval of a nuclear revenue  
76 requirement of \$16.8 billion over the period 2017-2021; if approved, the cost of these  
77 requirements will be spread across the rate base, regardless of OPG's actual  
78 production (once approved). Therefore in very fungible terms, OPG's outages  
79 represent real and direct costs to rate payers.

80 The rate payer cost, as must be paid to OPG for its lost production, due to the proposed  
81 PHT Pump outage schedule is \$246.4M over the test period. OAPPA further asserts  
82 that the real rate payer cost is appreciably more – being no less than twice - as this lost  
83 DNGS production, purported by OPG to be baseload power and therefore always  
84 needed, must otherwise be replaced and subsequently purchased from other IESO  
85 market participants. Therefore, the real rate payer cost of these DNGS PHT pump  
86 outages is at least \$492.8 million during the test period.

87 *DNGS PHT Pump Replacement Outages – Pump Failures do not represent a Safety Risk*

88 OAPPA was originally concerned that suggesting a revision to OPG's outage schedule  
89 could in some way jeopardize equipment, personnel or public safety. However, OPG

90 repeatedly<sup>3</sup> confirmed that a PHT Pump failure would not do so and further, such an  
91 event would be highly unlikely to cause a poisoning of the reactor fuel bundles.

92 A failure of any PHT Pump does not represent a safety risk for the following reasons:

- 93 • Two (2) PHT pumps are connected in series – meaning that the second unit will  
94 continue to function during a Unit trip, as precipitated by a PHT pump failure;
- 95 • The CANDU design includes other systems, redundant pumping and shutdown  
96 cooling pumps that would add water to the cooling system<sup>4</sup>;
- 97 • Thermo-syphoning is a fundamental design benefit of the CANDU reactor, such  
98 that in the extreme, for example during a Class IV electrical systems failure  
99 (wherein all four PHT Pumps cease to operate), the thermo-syphoning  
100 phenomena naturally and safely cools the reactor core;

101 *DNGS PHT Pump Replacement Outage – OPG’s Obligations to Rate Payers and*  
102 *Requirement to Align with Shareholder Memorandum Agreement*

103 OAPPA contends that diligent scheduling of outages, such as the DNGS PHT pumps is  
104 not only consistent, but required by OPG and is supported by its Shareholder  
105 Memorandum of Agreement<sup>5</sup>.

106 Section 4 of the Shareholder Agreement addresses OPG’s specific mandate and states  
107 the following in 4.7 (b):

108 *“The Province of Ontario and the Ministry supports the role of public power and*  
109 *mitigating prices in Ontario and in doing so:*

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<sup>3</sup> TC Volume 2, Page 152, lines 14 to 18; Tr Volume 15, Page 108, lines 23 to 27 and Page 109 lines 13 to 21.

<sup>4</sup> Tr Vol 15, Page 108

<sup>5</sup> Exhibit A1-4-1, Attachment 2

110           ***(b) mandates that OPG plan and operate its generation facilities based on good***  
111           ***utility practice recognizing safety, legal, regulatory, environmental and market***  
112           ***factors***".

113 Mitigation of prices should necessarily involve operating the DNGS at optimal levels and  
114 in the pursuit of minimal production disruption. OAPPA contents that outage  
115 management would necessarily form part of this mandate. For further clarity, the  
116 Shareholder Agreement states the following in 4.9:

117           ***"OPG shall serve the public interest and operate in a way that achieves a***  
118           ***commercial rate of return, moderates overall electricity prices, and supports the***  
119           ***efficient operation of the electricity market***".

120 OAPPA contends that any planned removal of low-priced baseload power, due to non-  
121 concurrent outage scheduling, where otherwise feasible, is not consistent with the  
122 mandate of its Shareholder Agreement. OPG's currently proposed outage schedule  
123 requires rate payers to replace the electricity that they have already paid for once, with  
124 more expensively priced electricity from the market.

125 OAPPA has provided one possible alternative outage scheduling option that would  
126 increase the DNGS production forecast, acknowledging other such planning options are  
127 highly probable and should be aggressively sought out. Accordingly, OAPPA believes  
128 that OPG should reschedule its outages in order to minimize rate payer impact and  
129 requests that the OEB increase the DNGS production forecast by no less than 2.95  
130 TWh in order to incent OPG to do so.

## 131 7.0 ASSET SERVICE FEES AND OTHER REVENUES

### 132 7.1 Background - Bruce Nuclear Generating Station

133 **Issue 7.2 (Primary)** - *Are the test period costs related to the Bruce Nuclear Generating*  
134 *Station, and costs and revenues related to the Bruce lease appropriate?*

135 OPG's application reflects its December 4, 2015 amended Bruce Lease agreement that  
136 extended the lease term in accordance with its Shareholder's negotiation of the Bruce  
137 NGS refurbishment and life extension to 2061 with the privately-owned and non-OEB  
138 regulated operator, Bruce Power Limited Partnership<sup>6</sup>. In the 10 years preceding the  
139 test period and including three separate rate applications by OPG, total net revenues  
140 have been material, cumulatively positive and otherwise positive in each year, except 2.

141 However, net revenue during the test period is consistently negative. Since the date of  
142 the original application, OPG has twice amended its loss forecast of the Bruce Lease  
143 net revenues. The original May 2016 application evidence proposed a net loss of  
144 \$401M, its December 2016 amendment proposed a loss of \$123M and its latest March  
145 2017 amendments suggested a loss of \$174M. A summary of the changes in the  
146 proposed Bruce Lease net revenues is included in the following table:

	2017 (\$M)	2018 (\$M)	2019 (\$M)	2020 (\$M)	2021 (\$M)	Total (\$M)
Bruce Lease Revenues (2016-05-27) <sup>7</sup>	251.1	246.5	245	257.4	223.6	1,223.6
Bruce Lease Costs (2016-05-27)	317.3	320.9	330.8	339.5	316.8	1,625.3
Bruce Lease net Revenues (2016-05-27)	(66.2)	(74.4)	(85.8)	(82.1)	(93.2)	(401.7)

<sup>6</sup> Bruce Power Limited Partnership, or Bruce Power is owned by Borealis, TransCanada Corporation, BPC Generation Infrastructure Trust (OMERS), and in minority by the Power Workers Union and the Society of Energy Professionals.

<sup>7</sup> Ex G2-Tab 2-Schedule 1-Table 1

	2017 (\$M)	2018 (\$M)	2019 (\$M)	2020 (\$M)	2021 (\$M)	Total (\$M)
Bruce Lease Revenues <sup>8</sup> (2016-12-20)	216	210.9	208.5	219.8	188.7	1,043.9
Bruce Lease Costs (2016-12-20)	232.9	228	235.9	243.5	226.8	1,167.1
Bruce Lease net Revenues (2016-12-20)	(16.9)	(17.1)	(27.4)	(23.8)	(38.1)	(123.3)
2017 ONFA Change Impact (2017-03-22) <sup>9</sup>	(2.0)	(6.0)	(10.2)	(14.4)	(18.6)	(51.2)
Bruce Lease Net Revenues After 2017 ONFA Impact (2017-03- 22)	(18.90)	(23.10)	(37.60)	(38.20)	(56.70)	(174.50)

147 OPG currently proposes to capture the \$51.2M difference over the test period, since its  
148 December 2016 proposal, in the Bruce Lease Net Revenues Variance Account for  
149 consideration in a future rate application.

## 150 **7.2 OAPPA Submission**

151 OAPPA seeks a disallowance for 50% of the proposed Bruce Lease Net Revenue loss,  
152 or a reduction of \$87.25M in nuclear revenue requirements during the test period.

153 Albeit improved from the originally filed evidence loss of \$401M, the \$174M proposed to  
154 be collected from rate payers for losses due the Bruce Lease is nevertheless material.  
155 Through cross-examination it has been determined that the principal reason for the  
156 underlying loss is due to the extension of the Lease term to 2061. The extension of the  
157 term was prescribed by the Ministry, OPG's Shareholder and as negotiated with a  
158 privately-owned and non-OEB regulated corporation. OPG seeks to have \$174M in  
159 costs borne by the rate payer, rather than by the privately-held corporation, which does

<sup>8</sup> Ex N1-Tab 1-Schedule 1-Table 7

<sup>9</sup> Ex C2-Tab 1 – Schedule 2 – Page 5 – Chart 1A – Line 9

160 not have Accretion (or other End-Of-Life) Liabilities. We view this as a transfer of  
161 wealth from the public, rate payers to private, corporate interests.

162 Bruce Power has publicly stated<sup>10</sup>, concurrent with the December 2015 amended  
163 agreement that it expects to start refurbishing its 6 units in 2020, for a DRP-comparable  
164 cost of \$13B and that it will have average prices of \$77/MWh well beyond the test  
165 period<sup>11</sup>. Further, as OPG has evidenced, the majority of Bruce Power's employees  
166 (i.e. PWU and Society) will earn more than their OPG peers<sup>12</sup> throughout the test period.

167 In the absence of the shareholder's ability to enact a regulation (O'Reg. 53/05) requiring  
168 OPG to collect the imbalance from its rate payers, GAAP would necessarily prescribe  
169 such revenue losses to the company's Earnings Before Interest and Taxes, which would  
170 consequently and directly impact the dividend payment to the shareholder. Therefore  
171 the revenue collected by OPG from its ratepayers, net of interest and taxes will be  
172 returned to the shareholder, the cause and architect of the December 2015 Bruce  
173 Lease Agreement that has originated the loss.

174 During cross examination it was revealed that OPG's book value of the Bruce NGS  
175 asset would effectively equate to the amount of its liabilities<sup>13</sup> by the end of the test  
176 period. In layman's terms this effectively suggests that the Bruce NGS has no financial  
177 value beyond the test period. OPG further advised that it would be unlikely to find a

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<sup>10</sup> K20.2 pages 5 through 7.

<sup>11</sup> K20.2 page 5 stated that Bruce Power's nuclear rate was \$65.7/MWh in 2016.

<sup>12</sup> Exhibit F4, Tab 3, Schedule 1, Page 2, Lines 24 and 25 and Section 6.0, starting at page 23.

<sup>13</sup> Tr Volume 20 page 58, line 25 to page 59 line 6.

178 buyer for the asset<sup>14</sup>, further confirming that the actual market value of the asset could  
179 be less than its book value.

180 OPG has opined that it could not predict if the net Lease Revenues would be positive or  
181 negative beyond the test period and until 2061, the end of the amended December  
182 2015 Bruce Lease Agreement term<sup>15</sup>.

183 OAPPA nevertheless acknowledges that (1) Ministerial policy, LTEP and other social-  
184 economic benefits may exist beyond the comparative rate payer costs of \$174M for the  
185 Bruce Lease and (2) that the OEB cannot wholly deny OPG's claim to losses from the  
186 Bruce Lease agreement, pursuant to the Ministry's regulatory direction under O'Reg.  
187 53/05.

188 OAPPA does however assert that the Board can assess the reasonableness of such  
189 costs and should acknowledge having the rate payer increase the annual shareholder  
190 dividend, by an amount equivalent to Bruce Lease costs, net of tax and interest costs is  
191 unjustifiable and seeks to have the Board reduce OPG's request by half.

192 Notably, while the March 22, 2017 filing update, as based on the 2017 ONFA  
193 amendment, imparts a net negative consequence to the Bruce Lease net revenues of  
194 \$51.2M, OPG's prescribed facilities will benefit by an offsetting credit of \$170.8M<sup>16</sup>  
195 during the test period. Without prejudice to the OEB's decision on the aforementioned,  
196 OAPPA supports the Staff's opinion<sup>17</sup>, as detailed in its May 19<sup>th</sup>, 2017 that the now-  
197 known deferral and variance account credits be applied as a net revenue reduction

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<sup>14</sup> Tr Volume 20, page 60, lines 7 to 14.

<sup>15</sup> Tr Volume 20, page 60 line 24 to page 61 line 6.

<sup>16</sup> Ex C2-Tab 1 – Schedule 2 – Page 5 – Chart 1A – Line 4

<sup>17</sup> Board Staff Submission, May 19, 2017, Section 8.2, pages 128 and 129.

198 during the period – however, with the exception of the Bruce Lease Net Revenue  
199 Variance Account. OAPPA is concerned by a three-time material change in the  
200 proposed Bruce Lease net revenue losses since the date of the original Application date  
201 and therefore believes that any negative financial rate payer consequences should be  
202 deferred and settled based on actual results in OPG's next Application.