

1 **UNDERTAKING J4.1**  
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4 **Undertaking**  
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6 Please provide the unspent and not committed amounts for DRP that OPG is asking for  
7 in this application, after the financial statements are available from the March Board  
8 meeting.  
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12 **Response**  
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14 Of the total in-service and OM&A amounts for the DRP for which OPG is seeking  
15 recovery in this application, the total amount which is unspent and not committed is  
16 \$2,130 million as of December 31, 2016.  
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18 The \$2,130 million is determined after taking into account amounts previously approved  
19 by the OEB (refer to Undertaking J2.1), actual expenditures to December 31, 2016, plus  
20 accruals and commitments, the project approvals sought as set out in OPG's Second  
21 Impact Statement (Ex. N 2-1-1) and the 2016 OM&A bridge year budget.

**UNDERTAKING J4.3**

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**Undertaking**

How much contingency has been drawn down since U2EE, and also from the Program in total to date?

**Response**

Please refer to the response to Undertaking J2.10, Attachment 1, Appendix 5B, p. 15 (confidential), in particular, the column entitled “Drawdowns against U2EE” and the corresponding note. The amount drawn down from the overall program contingency is the total shown at bottom of that column (see note 2).

1 **UNDERTAKING J4.5**

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3 **Undertaking**

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5 To augment the table provided in Ex. L-4.3-1 Staff-055 Attachment 1, p.13, by a)  
6 breaking out of line 13 for F&IP and SIO projects; b) Adding a new column with  
7 contingency breakdown by project line items; and c) Adding a new column with the  
8 planned in-service date for each line item.  
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11 **Response**

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13 a) There are no F&IP and SIO projects included in the referenced U2EE cost summary.  
14 Please refer to Ex. D2-2-10, Tables 2 and 3, and the updates to these tables provided in  
15 response to Undertaking J2.6 for in-service dates for F&IP projects and SIO.  
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17 b) and c) Chart 1 below shows the breakdown by project line item of the total of  
18 \$677.5M contingency at establishment of the U2EE and the planned in-service dates of  
19 the projects within the Project Bundles. All project bundles are fully in-service by  
20 February 2020.  
21

22 Although OPG has allocated contingency on a project bundle basis and to the functions  
23 as set out in Chart 1, OPG's reiterates that contingency was calculated on a program  
24 basis and that:  
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- 26 (i) it is committed to placing Unit 2 in-service at or below the forecast in-service  
27 amount of \$4.8B;  
28  
29 (ii) during the Unit 2 refurbishment, should the contingency allocated to an individual  
30 project bundle or function not be fully utilized, OPG will use that contingency as  
31 required, e.g. to off-set the "over-utilization" (i.e. based on the allocation provided  
32 herein) of contingency on another individual project bundle or function; and  
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34 (iii) should contingency allocated to Unit 2 not be fully utilized, OPG will carry-over  
35 that unutilized contingency on Unit 2 to be potentially utilized on the  
36 refurbishment projects of future units in order to deliver the 4-unit refurbishment  
37 program within the \$12.8B budget.  
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**Chart 1 – U2 Cost Summary Updated with Contingency Breakdown and I/S Dates**

#	Division	RQE	Current U2EE	Variance from RQE	%	U2EE Contingency Breakdown	Planned In-service date
1	NR - Retubing & Feeder Replacement	1,143,965	1,148,041	4,077	0%	115,585	Feb-20
2	NR - Turbine Generator	226,164	228,012	1,849	1%	59,750	Feb-20
3	NR - Balance of Plant	165,731	186,299	20,568	12%	65,163	Feb-20
4	NR - Fuel Handling	21,498	16,448	(5,050)	-23%	10,242	Feb-20
5	NR - Defueling	31,544	35,978	4,434	14%	2,209	Feb-20
6	NR - Steam Generator	53,313	54,537	1,224	2%	16,533	Feb-20
7	NR - Specialized Projects	85,593	86,656	1,063	1%	5,272	Feb-20
8	NR - Shutdown, Layup and Services	83,371	76,354	(7,017)	-8%	50,745	Feb-20
9	NR - Unit Islanding	57,731	61,058	3,327	6%	2,742	Feb-20
10	NR - Waste Disposal	7,713	7,713	-	0%	-	<del>Feb-20</del>
11	NR - Refurbishment Support Facilities	35,478	36,382	904	3%	11,035	Feb-20
<b>12</b>	<b>SubTotal Bundle Projects</b>	<b>1,912,101</b>	<b>1,937,478</b>	<b>25,378</b>	<b>1%</b>	<b>339,276</b>	
13	NR - F&IP + SIO Projects	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>
<b>14</b>	<b>SubTotal Campus Plan Projects</b>					-	
15	OPG Functions + Ops & Maintenance	791,583	802,114	10,532	1%	35,771	Feb-20
<b>16</b>	<b>SubTotal Functions</b>	<b>791,583</b>	<b>802,114</b>	<b>10,532</b>	<b>1%</b>	<b>35,771</b>	<del> </del>
<b>17</b>	<b>SubTotal Base Costs</b>	<b>2,703,684</b>	<b>2,739,592</b>	<b>35,910</b>	<b>1%</b>	<del> </del>	<del> </del>
18	Total Contingency	689,530	677,453	(12,078)	-2%	<del> </del>	<del> </del>
19	Program Discrete Risk, Cost & Schedule Contingency	<del> </del>	<del> </del>	<del> </del>	<del> </del>	302,406	<del> </del>
<b>20</b>	<b>SubTotal Contingency</b>	<b>689,530</b>	<b>677,453</b>	<b>(12,078)</b>	<b>-2%</b>	<b>677,453</b>	
<b>21</b>	<b>Nuclear Refurbishment Program</b>	<b>3,393,214</b>	<b>3,417,045</b>	<b>23,832</b>	<b>1%</b>	<b>677,453</b>	

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