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November 25, 2016

RESS & OVERNIGHT COURIER

Ms. Kirsten Walli Board Secretary Ontario Energy Board P.O. Box 2319 2300 Yonge Street, 27th Floor Toronto, ON M4P 1E4

Dear Ms. Walli:

Re: EB-2016-0152 - Ontario Power Generation Inc. ("OPG") Application for Payment Amounts (the "Application"):

- Confidential Treatment of L-04.3-7 ED 004; and
- Withdrawal of a Request for Permanent Redaction re Attachment 1 to JT2.1

In accordance with OPG's letter dated November 14, 2016 (Inadvertent Disclosure), OPG hereby files a non-confidential version of Attachment 1 to L-4.3-7 ED-004. In addition, pursuant to Rule 10 of the Ontario Energy Board's *Rules of Practice and Procedure* and section 5.3 of the OEB's *Practice Direction on Confidential Filings*, OPG hereby requests (afresh) confidential treatment for the redacted portions of the Attachment to that interrogatory response.

With the hard copy of this letter, OPG has included a non-confidential, redacted version of the interrogatory response in **Attachment 'A'** and a confidential unredacted version in **Attachment 'B'**. For the electronic copy of this letter, filed through the RESS, only this letter and the non-confidential attachments are included.

As requested by the OEB in Procedural Order No. 3, OPG has included the specific locations of the proposed redactions and the reasons for each request in a table below.

Location of Confidential Information	Reason(s) for Confidentiality Request
 Information redacted in major category "Steam Generators" Information redacted in Note 7 	This information has been claimed as confidential by Candu Energy Inc. in its submissions to the OEB in this proceeding. In its submission on confidentiality dated November 11, 2016, OPG has stated that in respect of OPG's own commercial sensitivities, OPG is not seeking confidential protection of the subject information.
All other redactions in table.Information redacted in Note 8.	This information has been claimed as confidential by the SNC/Aecon JV in its submissions to the OEB in this proceeding. In

Location of Confidential Information	Reason(s) for Confidentiality Request
	its submission on confidentiality dated November 11, 2016, OPG has stated that in respect of OPG's own commercial sensitivities, OPG is not seeking confidential protection of the subject information.

OPG will provide each intervenor that signs or has already signed a Declaration and Undertaking in the prescribed form and files or has filed it with the Board a copy of the confidential materials that are included in Attachment B.

On a final determination, should the OEB grant OPG's request for confidentiality, OPG proposes that the OEB order the confidential information to be disclosed, subject to any conditions the OEB may find appropriate, to only those persons that by then have signed, or that subsequently sign, a Declaration and Undertaking in the prescribed form in this proceeding.

In addition, consistent with section 6.2 of the Practice Direction, OPG requests that during oral proceedings any reference to information, which the Board has determined to be confidential, be conducted *in camera* so as to preserve its confidential nature.

In the event that the confidentiality request is refused, in whole or in part, and OPG in turn requests that some or all of the information that is the subject of this request be withdrawn in accordance with section 5.1.12 of the Practice Direction, all persons in possession of the said information will be required to promptly destroy or return the information to the OEB Secretary for destruction.

Attachment 1 to Undertaking Response JT2.1

On November 21, 2016, OPG wrote to the OEB and made a request for permanent redactions to a part of Attachment 1 of undertaking response JT2.1, being the Minister of Energy's letter of concurrence with the OPG 2016 – 2018 Business Plan. At the time of the November 21st submission, the subject information was not publically disclosed and OPG needed to make provision to protect this information. Subsequently, OPG has publically released this information publically and it no longer needs protection. OPG has included a public copy of this document in Attachment A.

Respectfully submitted,

[Original signed by]

Barbara Reuber

cc: Carlton D. Mathias (OPG) via email Charles Keizer (Torys) via email Crawford Smith (Torys) via email

ATTACHMENT 'A'

Non-Confidential Documents

Exhibit	Attachment					
L-04.3-7 ED 004	Attachment 1					
JT2.1	Attachment 1					

Attachment to L-04.3-7 ED-004 (includes summary calculations for L-04.3-7 ED-003) **Cost Overrun Scenarios**

Filed: 2016-10-11-01 EB-2016-0152 Exhibit L, Tab 4.3 Schedule 7 ED-004 Attachment 1 Page 1 of 1

Cost Overrun Scen	anos				ED-004			ED-003			ED-004			ED-003
2015\$M (except for Interes	est and Escalation line item)		1.25			25% Cost Growtl	1		2		1	100% Cost Grow	<i>r</i> th	
Major Category	Category/ Contract Type	RQE Base Case	Base cost + % Increase	Cost Variance	Impact to Contractor	Impact to OPG	Actual Cost to OPG	Proportion of Increase paid by OPG	Base cost + % Increase	Cost Variance	Impact to Contractor	Impact to OPG	Actual Cos to OPG	Proportion of Increase paid by OPG
	OPG Project Management & Oversight Costs	167	209	42	2	42	209		334	167	_	167	334	
	Definition Phase Target Price (Incl RWPB) Definition Phase Fixed Fee	185 74	231 92	46 18	0 18	46 0	231 74		370 147	185 74	74	185		-
	Definition Phase Fixed Fee Incentive/ Disincentive		ÜL	10	9		(9)		1 17	, ,	35			
	Execution Phase Fixed Fee Execution Phase Fixed Fee Execution Phase Fixed Fee Execution Phase Fixed Fee	1,667	2,084	417	0		2,084		3,334	1,667	0	, , , ,		
Retube Feeder Replacement	Execution Phase Fixed Fee Execution Phase Fixed Fee Incentive/ Disincentive	492	615	123	123 68	0 (68)	492 (68)		984	492	492 236			-
Керіасеттеті	Mock-up Fixed Price	38	48	10	10	0	38		76	38	38	· · · · · · · · · · · · · · · · · · ·		-
	Non-target Reimbursable Costs Tooling Fixed Price	6	8	2	0		8		12	6	0			
	Tooling Lixed Flice	375	469	94	94	0	375		750	375	375			
	OSM with Fee(estimate) Goods with Fee(estimate)	579 48	724 60	145 12	0		724 60		1,158 96	579 48	0			4
	OPG Project Management & Oversight Costs	49	61	12		12	61		98		0	49		1
	Defueling - Eng Services (Fixed/Firm Price)	16	20	4	4		16		32	16	16			
Fuel Handling/ Defueling	Defueling - Eng Services (Misc Reimbursable) Fuel Handling (ESMSA - see assumptions)	7	9	2	0	2	9		14	7	0	7	14	1
		126	157	31		2	10		252	126		10		_
	OPG Project Management & Oversight Costs	13	16	3		3	16		26	13		13	26	
Steam Generators	Contractor Costs							67%						68%
	OPG Project Management & Oversight Costs	41	51	10		10	51		82			41		T
	ESES - Fixed/ Firm Cost - Equipment Supply	257	321	64	64				513	257	257			
	ESES - Target Cost Installation & Static Commissioning ESES - Target Cost - Incentive/ Disincentive	38	48	10	<u>0</u> 5		(5)		77	38	0 19			-
	ESES - Target Cost - Dynamic Commissioning	14	17	3	0	(-/	17		28	14	0			1
	ESES - Target Cost - Incentive/ Disincentive				2		(2)				7	(7)		
	O ESES - Kelinbursable (no markup)	28	35	7	0	7	35		56	28	0			
Turbine Generator	EPC - Definition Phase Target Cost EPC - Definition Phase Fixed Fee	21 13	27 16	5	3	5	27 13		43 26	21 13	13			1
		10	10	J	1				20	10	4			1
	EPC - Definition Phase Fixed Fee Incentive/ Disincentive EPC - Execution Phase Target Cost C EPC - Execution Phase Fixed Fee	161	202	40	0		202		323	161	0]
	EFC - Execution Filase Fixed Fee	53	66	13	13		53		106	53	53			4
	EPC - Execution Phase Fixed Fee Incentive/ Disincentive EPC - Dynamic Commissioning Work (Trades)	2	3	1	7	(7)	(7)		5	2	25 0			1
	EPC - Goods		1	6	1	10		0			†			
	EPC - Reimbursable Costs with no-markup	11	14	3	0	3	14		23	11	0]
Balance of Plant	OPG Project Management & Oversight Costs	183	229	46		46	229		366	183		183	366	<u> </u>
	Contractor Costs (mainly ESMSA)	784	980	196					1,567	784 640				
	Facility and Infrastructure Projects (mainly ESMSA) Safety Improvement Opportunities (mainly ESMSA)	640 205	800 256	160 51					1,280 410					
	Project Execution	322	402	80		80	402		643			322	643	
	Contract Management	52	65	13		13	65		104	52		52	104	
	Engineering	283	353	71		71	353		565	283		283		
	Managed Systems Oversight Planning & Controls	41 136	51 170	10 34		10 34	51 170		82 272	41 136		41 136		
	Nuclear Safety	83	104	21		21	104	4000/	166			83		
Functions	Program Fees & Other Support	341	426	85		85	426	100%	682	341		341	682	100%
	Supply Chain	86	107	21		21	107		171	86		86		<u> </u>
	Work Control Operations and Maintenance	80 805	99 1,006	20 201		20 201	99 1,006		159 1,610	80 805		80 805		
	Early Release 3	102	1,000	25		25	127		203	102		102		
	Early Release 4	7	9	2		2	9		15	7		7	15	
Contingency		1,706	1,706	0		0	1,706	N/A	1,706			0	,	N/A
Sub Total		10,429	12,611	2,181	465		12,138	4000/	19,154	8,724	1,820			
Interest & Escalation (\$M) Total		2,371 12,800	2,866 15,477	496 2,677	465	496 2,212	2,866 15,004	100%	4,354 23,507	1,983 10,707	1,820	1,983 8,887		
Utai		12,000	13,477	2,077	400	2,212	15,004	82%	23,307	10,707	1,020	0,087	21,074	83%

Notes and assumptions:

- 1. Based on OPG's Release Quality Estimate (RQE). All numbers except interest and escalation are in 2015\$.
- 2. These are illustrative examples; assumption is that all contractor incentives/disincentives and performance fee mechanisms are applicable.
- 3. Cost overrun factors are also applied to life-to-date actual costs (costs with no risk of overruns).
- Cost overrun factors are applied to all costs excluding contingency.
- 5. RFR contract costs are as per Ex. D2-2-3, pp. 10 and 11.
- 6. De-fuelling contract is mainly fixed/firm price. Reimbursable fixed fees are capped for certain costs; however, this was not incorporated into the calculations due to lack of materiality.
- 7. Steam Generator contract includes

 8. For work bundles that are mainly under ESMSA contracts (e.g. BOP, FH, FIP, SIO), it was assumed, for simplicity, that the increase is caused by the contractor; therefore, the cost to OPG is ______ of the cost overrun (performance fee of _____ withheld).
- 9. For simplicity, for all of the target cost contracts, a 20% cost disincentive was applied above any neutral band specified in the contracts. The actual percentage is calculated using a graded approach.

Filed: 2016-11-21 EB-2016-0152

JT2.

Attachment 1
Page 1 of 2

Ministry of Energy

Office of the Minister

4th Floor, Hearst Block 900 Bay Street Toronto ON M7A 2E1 Tel.: 416-327-6758 Fax: 416-327-6754

NOV - 7 2016

Ministère de l'Énergie

Bureau du ministre

4° étage, édifice Hearst 900, rue Bay Toronto ON M7A 2E1 Tél.: 416 327-6758 Téléc.: 416 327-6754

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NOV 10 2016

OFFICE OF THE BOARD CHAIR



MC-2016-2226

Mr. Bernard Lord Chair Ontario Power Generation 1900–700 University Avenue Toronto ON M5G 1X6

Dear Mr. Lord:

Thank you for your submission of Ontario Power Generation's (OPG) 2016-2018 Business Plan ("the Plan"). I have reviewed the Plan and find it to be consistent with our government's expectations, subject to OPG's alignment with requirements of Treasury Board Secretariat's Executive Compensation Framework Regulation.

I support the operational and financial targets set by OPG in its business plan. I expect OPG to work closely with the Ministry of Energy to continue its commitment to deliver the efficiencies and cost savings as per the 2016-2018 Business Plan in a manner that is consistent with the continued safe and environmentally responsible operation of OPG's facilities. As the Darlington Refurbishment Project is a key priority for the government, I expect that OPG will continue to focus on delivering the project as per the schedule and budget contained in the Release Quality Estimate approved by the OPG Board and by the government. I also expect OPG to continue to minimize project risks consistent with the nuclear refurbishment principles set out in the 2013 Long-Term Energy Plan.

I expect OPG to continue to keep the government informed with regard to the company's key ongoing and emerging initiatives and progress in achieving its financial and operational performance commitments. I recognize the important role that OPG has and will continue to play in delivering value to the Province and electricity ratepayers.

In addition, in order to support the focus on cost containment, the decommissioning of Lambton Generating Station should proceed immediately.

I recognize OPG's achievement to date with overall headcount reductions, and OPG's efforts to align its pensions with those in the Public Service, and we expect OPG to continue negotiation on this issue in future rounds of collective bargaining. OPG's accrual accounting methods for recovery of Pension and Other Post-Employment Benefits costs are fair and reasonable given the long-term nature of these costs.

Attachment 1

Page 2 of 2

In regard to the OPG's executive compensation, I expect OPG to work within the Treasury Board Secretariat (TBS) Executive Compensation Framework Regulation that came into force on September 6, 2016, which caps salary and performance-related payments for executives at no more than the 50th percentile of appropriate comparators. I understand OPG is revisiting the current proposal as embedded in the 2016-2018 Business Plan and encourage you to continue your work with the Ministry of Energy and the TBS to develop the framework that meets the requirements outlined in the regulation.

This letter constitutes my concurrence with OPG's Board-approved 2016-2018 Business Plan as provided for under the Memorandum of Agreement between OPG and the Shareholder dated July 17, 2015.

Sincerely,

Glenn/Thibeault

Minister

c: Jeff Lyash, President and Chief Executive Officer, OPG Serge Imbrogno, Deputy Minister, Ministry of Energy

ATTACHMENT 'B'

Confidential, Unredacted Documents

Exhibit	Attachment				
L-04.3-7 ED 004	Attachment 1				