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March 7, 2019

Mr. Patrick Wruck
Commission Secretary and Manager
Regulatory Support
British Columbia Utilities Commission
Suite 410, 900 Howe Street
Vancouver, BC V6Z 2N3

Dear Mr. Wruck:

**RE: British Columbia Utilities Commission (BCUC or Commission)
British Columbia Hydro and Power Authority (BC Hydro)
Fiscal 2020 to Fiscal 2021 Revenue Requirements Application
(the Application)**

BC Hydro writes to provide Supplemental Information No. 1 to the Application, which contains:

- An updated version of Figure 9-2 which appears on Page 9-4 of the Application. The updated version includes additional information that was accidentally omitted in the original.
- Columns E, F, G and J of pages 1, 2 and 3 in the Generation section of Appendix I, Attachment 1 of the Application. These columns were accidentally omitted in the original. As Appendix I, Attachment 1 contains confidential information, BC Hydro will also submit a confidential version of this update under separate cover.

For further information, please contact Chris Sandve at 604-974-4641 or by email at bchydroregulatorygroup@bchydro.com.

Yours sincerely,

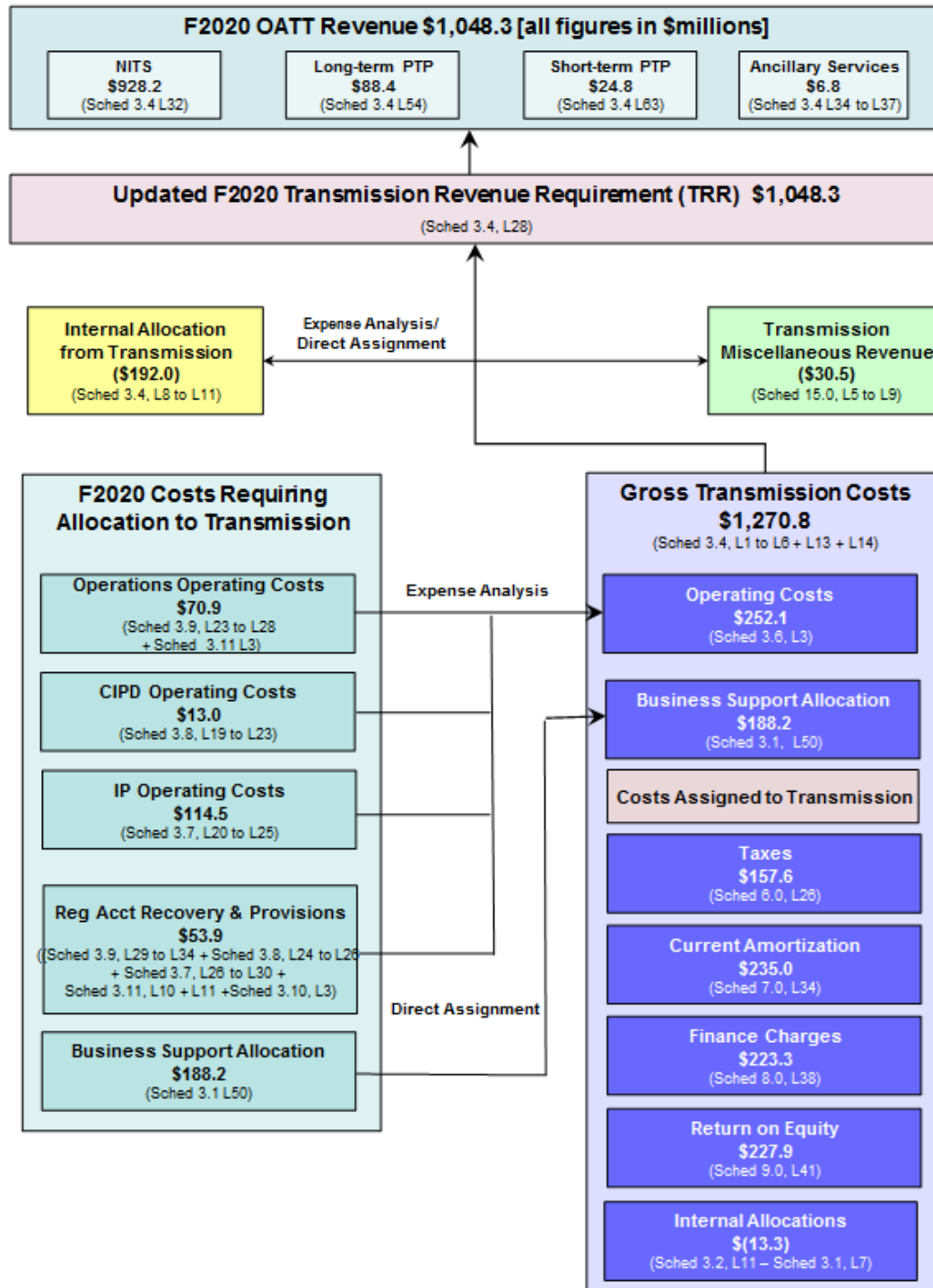
(for) Fred James
Chief Regulatory Officer

cs/rh

Enclosure

1
2
3
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Figure 9-2 Fiscal 2020 Transmission Revenue Requirement Components (\$ million) with References to Appendix A Financial Schedules



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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
Planning ID	Name of Project	Growth or Sustaining Expenditure	Development Phase (3)	Forecast ISD (4)	Start Date of Construction (5)	Definition Approval Date (6)	Implementation Approval \$ (7)	Implementation Approval ISD (10)	Pre-Implementation Cost Estimate (8)	Authorized Amount (9)	Capital Addition Actual F18	Capital Addition Forecast F19	Capital Addition Forecast F20	Capital Addition Forecast F21	Capital Expenditure Actual F18	Capital Expenditure Forecast F19	Capital Expenditure Forecast F20	Capital Expenditure Forecast F21	Extension Project, Y=Yes, N=No	Current or Potential Application (11)	Appendix J Reference	Name for Appendix K Reference (Summaries of Strategies, Plans & Studies)	Appendix K Reference	Program of Projects
44	G000241	Puntledge Recoat Interior and Exterior of Steel Penstock	Sustaining	Definition	F2022	F2019	F2017		55.9 - 31.7		-	-	-	1.3	0.4	0.4	7.9	6.1	N		Page 44	Puntledge Facility Asset Plan Generation Asset Management Strategy - Penstock Recoating	Pages 31 and 33	
45	G001008	Revelstoke - 600V Circuit Breaker Upgrades	Sustaining	Definition	F2022	F2019	F2018		14.9 - 8.5		-	-	-	-	0.2	0.2	0.6	5.5	N			Revelstoke Facility Asset Plan	Page 35	
46	G000792	Seven Mile Replace Unit 1-4 Exciter Transformers	Sustaining	Definition	F2022	F2019	F2018		12.1 - 4.0		-	-	-	8.6	0.3	0.5	4.0	3.7	N			Seven Mile Facility Asset Plan	Page 39	
47	G003515	Various - Water License Renewal	Sustaining	Definition	F2021	F2019	F2017		11 - 5.4		-	-	-	5.3	1.7	1.8	0.8	0.6	N					
48	G000342	Wahleach Recoat Penstock (Interior and Exterior)	Sustaining	Definition	F2021	F2019	F2018		38.5 - 21.8		-	-	-	26.0	0.3	1.0	4.6	19.7	N		Page 46	Wahleach Facility Asset Plan Generation Asset Management Strategy - Penstock Recoating	Pages 31 and 44	
49	G000334	Wahleach Refurbish Generator	Sustaining	Definition	F2022	F2019	F2018		67.6 - 22.0		-	-	-	-	1.8	3.7	6.3	5.5	N		Page 48	Wahleach Facility Asset Plan	Page 44	
50	G000042	Ash River Extend Life of Steel Penstock	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.3	0.7	N				Ash River Facility Asset Plan Generation Asset Management Strategy - Penstock Recoating	Pages 5 and 31	
51	G000485	Bridge River 1 - Strip and Recoat Penstocks 1-4 Interior	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	0.6	3.0	4.7	N			Page 49	Bridge River Facility Asset Plan Generation Asset Management Strategy - Penstock Recoating	Pages 7 and 31	
52	G000776	Bridge River 1 Replace Units 1-4 Generators / Governors	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	1.3	1.8	3.7	10.5	N	Potential s44.2	Page 50	Bridge River Facility Asset Plan	Page 7	
53	G000489	Bridge River 2 - Strip and Recoat Penstock 2 Interior	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	16.6	-	0.6	3.1	13.0	N			Bridge River Facility Asset Plan Generation Asset Management Strategy - Penstock Recoating	Pages 7 and 31	
54	G000493	Bridge River 2 Upgrade Units 7 and 8	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	54.7	0.4	1.7	11.5	41.1	N		Page 52	Bridge River Facility Asset Plan	Page 7	
55	G003035	Hugh Keenleyside Recoat Navlock Gates	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	0.2	0.2	0.3	4.4	N			Hugh Keenleyside Facility Asset Plan	Page 15	
56	G000158	Jordan - Upgrade Governor & PRV Controls	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	0.2	0.4	2.4	5.1	N			Jordan River Facility Asset Plan	Page 18	
57	G000952	Kootenay Canal Modernize Controls	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.2	7.6	N			Page 54	Kootenay Canal Facility Asset Plan	Page 20	
58	G000741	Ladore - Redevelop Unit 1	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.6	3.3	N			Page 56	Ladore Falls Facility Asset Plan	Page 22	
59	G000517	Ladore Upgrade Protection and Control Systems	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.1	0.3	N				Ladore Falls Facility Asset Plan	Page 22	
60	G000169	Lake Buntzen 1 Penstock Exterior Recoat	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.5	0.9	N				Coquitlam-Buntzen System Facility Asset Plan Generation Asset Management Strategy - Penstock Recoating	Pages 24 and 31	
61	G000174	Mica - Recoat Intake Maintenance Gates & Draft Tube Maintenance Gates	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	4.3	0.1	0.4	1.7	2.1	N			Mica Facility Asset Plan	Page 26	
62	G000220	Peace Canyon - 600V Circuit Breaker Upgrades	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.4	1.9	0.8	N			Peace Canyon Facility Asset Plan	Page 29	
63	G003373	Revelstoke Replace Fire Alarm System	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.2	2.6	5.7	N			Revelstoke Facility Asset Plan	Page 35	
64	G003026	Seton - Upgrade Unit	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.6	4.5	N			Page 57	Seton Facility Asset Plan	Page 37	
65	G000834	Seven Mile - Replace T1 Transformer	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.6	1.6	N				Seven Mile Facility Asset Plan	Page 39	
66	G000796	Seven Mile Overhaul Units 1 to 3 Turbines	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	0.7	0.7	2.1	2.1	N	Potential CPCN or s44.2	Page 59	Seven Mile Facility Asset Plan	Page 39		
67	G000822	Seven Mile Upgrade Powerhouse Crane Controls	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.4	3.2	N				Seven Mile Facility Asset Plan	Page 39	
68	G003755	Stave Falls - Improve Unit 1&2 Turbine Pitch Assemblies	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.2	1.6	N				Stave Falls Facility Asset Plan	Page 39	
69	G003422	Various - Remediate PCB Contaminated Equipment	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	1.3	2.6	N						
70	G003449	Various Facilities Replace Water Level Gauges	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.2	0.3	1.1	N					
71	G001047	Waneta U3 Life Extension	Sustaining	Identification	TBD	TBD	TBD		TBD		-	-	-	-	-	0.4	3.4	3.1	N		Page 61			
72	G000131	G.M. Shrum - Intake Operating Gate and Intake Maintenance Gate Refurbishment	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	0.3	N				G.M. Shrum Facility Asset Plan	Page 13	
73	G003336	G.M. Shrum - Intake Operating Gate Hydraulic Upgrade	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	0.4	N			Page 63	G.M. Shrum Facility Asset Plan	Page 13	
74	G003826	G.M. Shrum - Pauwels Transformer Life Extension	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	0.1	N				G.M. Shrum Facility Asset Plan	Page 13	
75	G000133	G.M. Shrum - Transformers Phase 4 Replacement	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	0.7	3.0	N				G.M. Shrum Facility Asset Plan	Page 13	
76	G000130	G.M. Shrum - U1 - U10 Water Passage Refurbishment	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	0.7	N			Page 64	G.M. Shrum Facility Asset Plan	Page 13	
77	G000120	G.M. Shrum - U9 - U10 Circuit Breaker Replacement	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	0.2	0.3	N				G.M. Shrum Facility Asset Plan	Page 13	
78	G000168	Lake Buntzen 1 - Generator Replacement	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	1.8	N			Page 65	Coquitlam-Buntzen System Facility Asset Plan	Page 24	
79	G000195	Mica - Intake Gantry Crane Refurbishment	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	0.6	4.1	N				Mica Facility Asset Plan	Page 26	
80	G000231	Peace Canyon - High and Low Pressure Piping Replacement	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	0.4	N				Peace Canyon Facility Asset Plan	Page 29	
81	G003835	Peace Canyon - U1 - U4 Exciter Replacement	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	0.4	N				Peace Canyon Facility Asset Plan	Page 29	
82	G000252	Revelstoke - U1 - U4 Stator Replacement	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	1.2	N	Potential s44.2	Page 66	Revelstoke Facility Asset Plan	Page 35		
83	G000436	Seven Mile - U1 - U4 Controls Upgrade	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	0.3	1.1	N				Seven Mile Facility Asset Plan	Page 39	
84	G001918	Strathcona - G1 Generator Rewind	Sustaining	Future	TBD	TBD	TBD		TBD		-	-	-	-	-	-	2.2	N				Strathcona Facility Asset Plan	Page 42	
		Add: Projects Less than \$5M												73.4	78.1		87.8	72.2						
		TOTAL Hydroelectric												294.1	359.7		341.7	491.1						

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
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	Diesel																							
	Add: Projects & Programs Less than \$5M												7.9	5.8			8.7	5.0						
	TOTAL Diesel												7.9	5.8			8.7	5.0						
	Thermal																							
	Add: Projects & Programs Less than \$5M												3.8	6.1			6.6	4.5						
	TOTAL Thermal												3.8	6.1			6.6	4.5						
	Generation Total												305.8	371.5			357.0	500.6						
	Portfolio Delivery Adjustment												8.9	(74.6)			(11.9)	(65.2)						
	Total												314.7	297.0			345.1	435.5						

Note a: Given the nature of the project, a definition phase was not undertaken.
 Note b: In the F17-F19 RRA, the Name of this Project was Puntledge Flow Control Improvements.

Notes:

- (1) Information provided is current as of the established 'Currency Date' which is April 1, 2018. Information for certain projects in progress has been updated for significant events subsequent to this date.
- (2) Some projects that are in service or forecast to be in service at the end of fiscal 2019 may have trailing expenditures that result in capital additions in the test period. These expenditures and associated capital additions have been aggregated and included in the line item "Projects less than \$5 million".
- (3) Project / Program dollars are generally capitalized starting either in the feasibility stage of Identification phase or in the Definition phase.
- (4) Forecast ISD is the expected in-service date (as at the Currency Date) when the project goes into service.
- (5) Start Date of Construction is the Implementation Approval Date. For projects in Definition, the Start of Construction is the forecasted Implementation approval date.
- (6) Fiscal Year that the project received Definition phase approval.
- (7) Implementation Approval \$ refers to the 'Authorized' total capital cost of the project when it was first approved by BC Hydro for Implementation.
- (8) Pre-Implementation phases are: Future, Identification and Definition. See Chapter 6, section 6.4.7.4 to 6.4.7.7 for further discussion on pre-Implementation phases. Pre-Implementation cost estimates are provided where an engineering estimate is available. Engineering estimates are generally completed during the mid-stage of Identification phase. N/A indicates that an engineering estimate is not yet available, or that the project is in Implementation phase.
- (9) Amounts reflect only the capital portion of the Authorized amount.
- (10) Implementation Approval ISD refers to the in-service date identified when the project was first approved by BC Hydro for Implementation.
- (11) Project meets the current threshold for a CPCN or Section 44.2 Application based on the Project Authorized Cost Amount, or may meet the threshold, based on the planning cost allowance or cost estimate as of the Currency Date (See Note 1), or in accordance with BCUC Direction No. G-47-18.

Use of To Be Determined (TBD):

For projects in Future or Identification phase, To be Determined (TBD) is provided for the Pre Implementation Cost Estimate, Forecast In-Service Date (ISD) and Start Date of Construction, for the following reasons:
 For Future phase projects, a problem or opportunity has been identified, but the required response has not yet been determined. In Identification phase, a number of identified alternative responses are being investigated, and each alternative can result in very different project scope, schedule and cost. As a result, Pre-Implementation Cost Estimate, Forecast In-Service Date (ISD) and Start of Construction Date are generally only provided for projects in the Definition phase and later phases.