## NEWFOUNDLAND AND LABRADOR BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

## AN ORDER OF THE BOARD

NO. P.U. 21(2017)

**IN THE MATTER OF** the *Electrical Power* 

Wabush Terminal Station;

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2	Control Act, 1994, SNL 1994, Chapter E-5.1 (the		
3	"EPCA") and the Public Utilities Act, RSNL 1990,		
4	Chapter P-47 (the "Act"), as amended, and regulations		
5	thereunder; an	nd	
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7	IN THE MA	TTER OF an application by Newfoundland	
8	and Labrador	Labrador Hydro for approval of a capital expenditure	
9	to repair and	repair and advance the overhaul of the Happy Valley	
10	gas turbine pursuant to section 41 of the <i>Act</i> .		
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13	WHEREAS Newfoundland and Labrador Hydro ("Hydro") is a corporation continued and		
14	existing under the Hydro Corporation Act, 2007, is a public utility within the meaning of the		
15	Act, and is also subject to the provisions of the EPCA; and		
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17	WHEREAS section 41 of the Act states that a public utility shall not proceed with the		
18	construction, purchase or lease of improvements or additions to its property where:		
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20	a) the cost of construction or purchase is in excess of \$50,000; or		
21	b) the	e cost of the lease is in excess of \$5,000 in a year of the lease	
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23	without prior approval of the Board; and		
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25	WHEREAS in Order No. P.U. 45(2016) the Board approved Hydro's 2017 Capital Budget in		
26	the amount of	f \$271,265,600; and	
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28	WHEREAS	the Board approved supplementary 2017 capital expenditures:	
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30	(i)	in Order No. P.U. 5(2017) in the amount of \$3,045,000 to construct a	
31		distribution feeder at the Bottom Waters Terminal Station;	
32	(ii)	in Order No. P.U. 7(2017) in the amount of \$3,168,944 to lease, sublease and	
33		purchase transmission lines and electrical equipment to serve Labrador West;	
34	(iii)	in Order No. P.U. 10(2017) in the amount of \$1,349,200 to replace the exciter	
35		controls for Units 1 and 2 at the Holyrood Thermal Generating Station;	
36	(iv)	in Order No. P.U. 11(2017) in the amount of \$2,585,200 to replace equipment	
37		and complete a level 2 condition assessment of the synchronous condensers at	

- (v) in Order No. P.U. 13(2017) in the amounts of \$9,063,700 and \$2,361,500 respectively to inspect and refurbish Bay d'Espoir Penstock 2 and to complete a major overhaul on Bay d'Espoir Unit 3 Turbine;
- (vi) in Order No. P.U. 15(2017) in the amount of \$500,000 to be added to the 2017 Allowance for Unforeseen Items; and
- (vii) in Order No. P.U. 20(2017) in the amount of \$2,610,000 to refurbish and replace critical systems and equipment at the Holyrood Thermal Generating Station; and

**WHEREAS** on April 19, 2017 Hydro filed an application with the Board requesting approval of a capital expenditure in the amount of \$3,714,800 for the repair and advanced overhaul of the Happy Valley gas turbine (the "Application"); and

**WHEREAS** the Happy Valley gas turbine is required to provide emergency and peaking power, as well as supply power during the performance of planned maintenance and to provide synchronous condensing capability to provide voltage regulation and permit the transmission of power to the Happy Valley area during the winter months; and

**WHEREAS** the Application stated that in December, 2016 the Happy Valley gas turbine was observed to be leaking oil after shut down following a test run, and an investigation determined that there was an internal leak; and

**WHEREAS** the Application also stated that repair of the Happy Valley gas turbine requires its removal from site and shipment to the original equipment manufacturer repair facility; and

**WHEREAS** as part of Hydro's asset management activities, the Happy Valley gas turbine is scheduled for an overhaul in 2019; and

WHEREAS the Application stated that Hydro is also proposing to advance the overhaul to take advantage of the requirement to send the Happy Valley gas turbine to the original equipment manufacturer repair facility; and

**WHEREAS** the Application stated that the advancement of the overhaul is justified due to the following:

(i) the repair of the oil leak from the number three bearing seal requires the complete disassembly of the HVGT;

 (ii) the OEM has recommended replacement components due to obsolescence, which work would have been completed in the planned overhaul in 2019;

 (iii) an estimated cost saving of approximately \$600,000 is expected by overhauling the gas turbine at this time as opposed to 2019 as planned, as removal, shipping, reinstallation and commissioning would not have to be incurred in 2019; and

(iv) the need for another extended outage in 2019 to complete the HVGT overhaul as currently planned will be eliminated; and

WHEREAS the Application was copied to: Newfoundland Power Inc.; the Consumer Advocate, Dennis Browne, Q.C.; a group of Island Industrial customers: Corner Brook Pulp

2	Limited; Praxair Canada Inc.; and Teck Resources Limited; and
3	WHEREAS on May 11, 2017 the Consumer Advocate submitted that there appeared to be
5	justification for the capital expenditure; and
6 7	WHEREAS the Board issued requests for information which were answered by Hydro on May
8	15, 2017; and
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10 11	WHEREAS on May 23, 2017 Hydro stated that the proposed capital works are necessary to ensure that Hydro can continue to provide service which is safe and adequate and just and
12 13	reasonable and requested that the Board approve the Application; and
14	WHEREAS the Board is satisfied that the proposed 2017 supplemental capital expenditure to
15 16	repair and advance the overhaul of the Happy Valley gas turbine is reasonable and necessary to ensure the continued provision of a safe and reliable electricity supply to Hydro's customers.
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18 19	IT IS THEREFORE ORDERED THAT:
20	II IS THEREFORE ORDERED THAT.
21 22 23	<ol> <li>The proposed capital expenditure in the amount of \$3,714,800 for the repair and advanced overhaul of the Happy Valley gas turbine is approved.</li> </ol>
24	2. Hydro shall pay all expenses of the Board arising from this Application.
	<b>DATED</b> at St. John's, Newfoundland and Labrador, this 30 <sup>th</sup> day of May, 2017.
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	Darlene Whalen, P.Eng.
	Vice-Chair
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	James Oxford //
	Commissioner

Cheryl Blundon Board Secretary