NEWFOUNDLAND AND LABRADOR BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

AN ORDER OF THE BOARD

NO. P.U. 40(2016)

IN THE MATTER OF the *Electrical Power*

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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; and	
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7	IN THE MATTER OF an application by	
8	Newfoundland and Labrador Hydro for approval	
9	of the combustor inspection and overhaul of the	
10	combustion turbine located in Holyrood	
11	pursuant to section 41 of the <i>Act</i> .	
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14	WHEREAS Newfoundland and Labrador Hydro ("Hydro") is a corporation continued and	
15	existing under the <i>Hydro Corporation Act</i> , 2007, is a public utility within the meaning of the	
16	Act, and is	s also subject to the provisions of the <i>EPCA</i> ; and
17	WHEDE	
18	WHEREAS subsection 41(3) of the Act requires that a public utility not proceed with the	
19	constructi	on, purchase or lease of improvements or additions to its property where:
20	۵)	the east of construction or numbers is in excess of \$50,000, or
21	a)	the cost of construction or purchase is in excess of \$50,000; or
22	b)	the cost of the lease is in excess of \$5,000 in a year of the lease,
23 24	without prior approval of the Board; and	
25	without prior approval of the Board, and	
26	WHERE	AS in Order No. P.U. 33(2015) the Board approved Hydro's 2016 Capital Budget in
27	the amount of \$183,082,800; and	
28	the amoun	ι οι φ103,002,000, und
29	WHEREAS the Board approved supplementary 2016 capital expenditures:	
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31	(i)	in Order No. P.U. 8(2016) in the amount of \$1,000,000 to supplement the
32	(-)	Allowance for Unforeseen Items;

in Order No. P.U. 17(2016) in the amount of \$6,300,000 to purchase 12 MW of

tubes on the Unit 1 and 2 boilers and to complete reliability improvements at the

(iii) in Order No. P.U. 19(2016) in the amount of \$11,800,000 to replace lower reheater

generating capacity at the Holyrood Thermal Generating Station;

Holyrood Thermal Generation Plant;

- (iv) in Order No. P.U. 20(2016) in the amount of \$717,000 to reroute transmission line TL 227 and distribution line Sally's Cove L1, a multi-year project with capital expenditures of \$1,533,000 in 2017 which were also approved in this Order;
- (v) in Order No. P.U. 22(2016) in the amount of \$3,047,100 for the refurbishment of gas generator End A engine, serial number 202205, at the Hardwoods Gas Turbine Plant and gas generator End A engine, serial number 202204, at the Stephenville Gas Turbine Plant:
- (vi) in Order No. P.U. 28(2016) in the amount of \$1,977,300 for the refurbishment and overhaul of Unit 4 at Bay d'Espoir; and
- (vii) in Order No. P.U. 37(2016) in the amount of \$490,000 to purchase the Wabush Terminal Station and associated lands and assets; and

WHEREAS on August 31, 2016 Hydro applied to the Board for approval of a capital expenditure in the amount of \$4,738,300 to perform a combustor inspection and overhaul on the combustion turbine located in Holyrood (the "Application"); and

WHEREAS the Application explains that, the Original Equipment Manufacturer's preventative maintenance schedule recommends a combustor turbine inspection and overhaul when the total equivalent starts on a unit reaches 400; and

WHEREAS the Application states that, based on the anticipated operation of the combustion turbine in Holyrood, a preventative maintenance strategy was developed that originally forecast reaching 400 total equivalent starts in the spring of 2018; and

WHEREAS the Application further states that, due to unanticipated system events in 2015 and 2016, the combustion turbine has operated more than initially expected and that it is expected that the combustion turbine in Holyrood will reach 400 total equivalent starts and require preventative maintenance in February 2017; and

WHEREAS the Application explains that performing this work during the winter operating period would require the combustion turbine to be unavailable to the system for approximately four weeks during a critical time of the year and that waiting until the end of the 2016/2017 winter period would likely result in operation past the recommended maintenance schedule; and

WHEREAS the Application proposes that the work commence in October 2016 allowing the combustion turbine to return to service in November 2016; and

WHEREAS the Application states that the proposed combustor inspection and overhaul is necessary to ensure that Hydro can continue to provide service which is safe and adequate and just and reasonable; and

WHEREAS the Application was copied to: Newfoundland Power Inc.; the Consumer Advocate, Mr. Thomas Johnson; Corner Brook Pulp and Paper Limited and NARL Refining Limited Partnership (the "Industrial Customer Group"); Teck Resources Limited; Vale Newfoundland and Labrador Limited; and Praxair Canada Inc.; and

 WHEREAS the Board and Newfoundland Power filed Requests for Information which were answered by Hydro on September 16, 2016; and

WHEREAS submissions were filed by Newfoundland Power and the Industrial Customer Group on September 20, 2016; and

WHEREAS Newfoundland Power advised that, due to the importance of the combustion turbine to the Island Interconnected System, particularly during the winter period, it agrees that the combustor inspection and overhaul should be completed as proposed in the Application; and

WHEREAS the Industrial Customer Group stated that it is prudent to proceed with the proposed inspection and overhaul of the combustion turbine in the fall of 2016 but reserved the right to inquire or make submissions in any future process the Board may establish in relation to the Energy Cost Variance Deferral Account proposed in the 2013 Amended General Rate Application regarding whether the actual usage of the combustion turbine was consistent with least cost, reliable service; and

WHEREAS the Industrial Customer Group requested clarification from Hydro on the amount of spinning reserve maintained on the system and an explanation for Hydro not filing the Application until August 31, 2016 which resulted in a compressed time schedule for regulatory process; and

WHEREAS Hydro filed a reply submission on September 21, 2016; and

WHEREAS Hydro explained that it targets a spinning reserve level to cover the loss of the largest generating unit, which could be up to 170 MW, but has established a minimum reserve level of 70 MW; and

WHEREAS Hydro submitted that the analysis to determine the ideal execution time of the combustor inspection and overhaul was complex and that the filing of Application has allowed for due regulatory scrutiny; and

WHEREAS the Board received no comments on the Application from the other parties; and

WHEREAS the Board is satisfied that the proposed capital expenditure to perform the combustor inspection and overhaul on the combustion turbine in Holyrood is necessary to allow Hydro to provide service which is reasonably safe and adequate and just and reasonable.

IT IS THEREFORE ORDERED THAT:

1. The proposed capital expenditure in the amount of \$4,738,300 to perform a combustor inspection and overhaul on the combustion turbine located in Holyrood is approved.

2. Hydro shall pay all expenses of the Board arising from this Application.

DATED at St. John's, Newfoundland and Labrador, this 23rd day of September, 2016.

Andy Wells

Chair and Chief Executive Officer

Darlene Whalen, P.Eng.

Vice-Chair

James Oxford Commissioner

Cheryl Blundon Board Secretary