NEWFOUNDLAND AND LABRADOR BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

AN ORDER OF THE BOARD

NO. P. U. 31(2007)

1	IN THE MATTER OF the Electrical Power
2	Control Act, RSNL 1994, Chapter E-5.1 (the
3	"EPCA") and the Public Utilities Act, RSNL 1990,
4	Chapter P-47 (the "Act") as amended, and their
5	subordinate regulations;
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7	AND
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9	IN THE MATTER OF the application by
10	Newfoundland and Labrador Hydro ("Hydro")
11	for approval of the Board to proceed with the
12	construction of a wind-hydrogen diesel generation
13	project at Ramea, pursuant to Section 41(3)
14	of the <i>Act</i> .
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17	WHEREAS Hydro is a corporation continued and existing under the <i>Hydro Corporation Act</i> , is
18	a public utility within the meaning of the Act, and is subject to the provisions of the EPCA; and
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20	WHEREAS Section 41(3) of the Act requires that a public utility shall not proceed with the
21	construction, purchase or lease of improvements or additions to its property where: (a) the cost of
22	construction or purchase is in excess of \$50,000; or (b) the cost of the lease is in excess of \$5,000 ir
23	a year of the lease without the prior approval of the Board of Commissioners of Public Utilities (the
24	"Board"); and
2526	WHEREAS Hydro owns and operates an isolated diesel electrical system at Ramea and purchases
27	energy from a 390 kW non-utility owned wind farm at Ramea and uses this energy to displace diese
28	fuel generation; and
29	ruer generation, and
30	WHEREAS Hydro filed an Ex Parte application for approval to proceed with the construction and
31	installation of a wind farm, a hydrogen electrolyzer, a hydrogen storage system, five hydrogen-
32	generators, an Energy Management System, and associated equipment (together referred to as the
33	Wind-Hydrogen-Diesel System) at its Ramea isolated diesel system;
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WHEREAS the total cost of the proposed Wind-Hydrogen-Diesel System is \$8,794,000, of which \$1,272,000 is intended to be spent in 2007 and \$7,522,000 is intended to be spent in 2008; and

35 36 WHEREAS the proposed Wind-Hydrogen-Diesel System is a research and development project which will be constructed using non-regulated funds mainly from third parties; and

WHEREAS Hydro has confirmed that consumers will bear no costs associated with the proposed Wind-Hydrogen-Diesel System in any circumstance, either in implementation, operation or abandonment as these costs will not be included in regulated rate base or regulated operating expenses without a further order of the Board; and

WHEREAS Hydro has confirmed that the costs associated with the Wind-Hydrogen-Diesel System will not be included in Hydro's regulated rate base unless the system is proven used and useful and Hydro makes application to the Board to determine the value, if any, which is to be added to rate base; and

WHEREAS Hydro has confirmed that it will separately track all costs in accordance with Hydro's policies and procedures concerning non-regulated activities; and

WHEREAS the Board's financial consultant, Grant Thornton LLP, prepared a report, dated November 22, 2007, in relation to this application concluding that Hydro's procedures for the tracking and treatment of non-regulated debt appear adequate and recommending that Hydro apply similar methodology to track cash flows related to the Wind-Hydrogen-Diesel System; and

WHEREAS Grant Thornton further recommended that the Board direct Hydro to specifically add the Wind-Hydrogen-Diesel System to the list of non-regulated activities noted in the 'Non-Regulated Activities' 2006 document; and

WHEREAS Hydro has confirmed that proceeding with this project is not expected to negatively impact Hydro's ability to earn a just and reasonable return and maintain a sound credit rating in the financial markets of the world; and

WHEREAS Grant Thornton noted in its report that the total investment of \$8.8 million represents 0.6% of Hydro's average rate base as at December 31, 2006 (\$1,472.2 million) and further that the pro-forma interest expense associated with this investment is \$0.767 million which is equal to 0.69% of 2006 regulated interest expense (\$111.6 million); and

WHEREAS Grant Thornton recommended that the project be monitored on an on-going basis through additional reporting as part of Hydro's quarterly reporting to the Board; and

WHEREAS Hydro has stated that more information will be available after the three-year operational testing phase which is expected to begin in December 2008 with the first production of energy; and

WHEREAS Hydro has stated that, after the operational testing phase, Hydro will have adequate information to determine whether the project provides safe and reliable power at least cost, or provides other benefit to ratepayers; and

WHEREAS Hydro has stated that if a determination is made that the Wind-Hydrogen-Diesel System may provide benefit to ratepayers an application will be made to add the costs of the system to rate base, likely at net book value (undepreciated cost net of contributed funding), or alternatively, if a determination is made that this system should be taken out of service an application will be made to the Board for approval to abandon; and

WHEREAS Hydro has provided confirmation that both the Community of Ramea and the existing provider of wind energy in Ramea support the proposed Wind-Hydrogen-Diesel System; and

WHEREAS Hydro has advised that it is in the process of obtaining the necessary environmental approvals; that new switchgear in the existing diesel plant will provide the capability to isolate any reliability issues in the new system from the existing system; and that there will be a comprehensive safety plan covering the various phases of the project; and

WHEREAS the Board will approve Hydro's proposal to proceed with the construction of the Wind-Hydrogen-Diesel System in light of the information provided and particularly given that the costs of this system which are deemed to be non-regulated costs, will be tracked separately from regulated operations and will not be borne by ratepayers unless a further application to the Board is made.

IT IS THEREFORE ORDERED THAT:

- 1. Hydro may proceed with the construction and installation of the Wind-Hydrogen-Diesel System as proposed, in the amount of \$8,794,000, with spending of approximately \$1,272,000 in 2007 and \$7,522,000 in 2008.
- 2. Unless otherwise ordered by the Board, ratepayers will not bear any of the costs relating to the Wind-Hydrogen-Diesel System.
- 32 3. Hydro shall treat all costs related to the Wind-Hydrogen-Diesel System as non-regulated in accordance with the methodology, policies and procedures in place for the treatment of non-regulated activities.
- Unless otherwise directed by the Board, Hydro shall provide a quarterly update on the status of the Wind-Hydrogen-Diesel System in each quarterly report to the Board, setting out details as to implementation and operation of this system, capital and operating costs, variances from budget, reliability and safety issues.
- Hydro shall file a report to the Board within ninety days of the conclusion of the operational testing phase addressing in detail Hydro's conclusions and plans in relation to the Wind-Hydrogen-Diesel System.
- 42 6. Hydro shall pay all expenses of the Board arising from this application.

DATED at St. John's, Newfoundland and Labrador	t, this 30 th day of November 2007.
	Robert Noseworthy Chair & Chief Executive Officer
	Darlene Whalen, P.Eng.
	Vice-Chair
Cheryl Blundon Board Secretary	