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October 1, 2018

The Board of Commissioners of Public Utilities Prince Charles Building 120 Torbay Road, P.O. Box 21040 St. John's, NL A1A 5B2

Attention: Ms. Cheryl Blundon Director Corporate Services & Board Secretary

Dear Ms. Blundon:

Re: The Liberty Consulting Group Report – Analysis of Newfoundland Island Interconnected System Power Supply Adequacy for the Winter of 2018-2019 – Biweekly Update Report

In its correspondence of September 19, 2018, the Board of Commissioners of Public Utilities (Board) requested that Newfoundland and Labrador Hydro (Hydro) provide a biweekly report on Hydro's supply adequacy for the Winter 2018-2019, commencing October 1, 2018.

This biweekly report provides an update on the in-service of the Labrador-Island Link (LIL) and how it relates to Winter 2018-2019 supply adequacy, as well as details regarding the submittal of further information on Hydro's production facilities asset management.

The LIL In-Service Update

This report contains:

- an overview of the critical path tasks required for reliable operation of the LIL for Winter 2018-2019;
- an overview of the highest risks being monitored and mitigated for the LIL in-service in Winter 2018-2019;
- Hydro's updated modelled assumptions for Winter 2018-2019 supply adequacy planning; and,
- Hydro's proposed contingency plan to mitigate the consequences of unavailability or unreliability of the LIL for all or part of the upcoming winter.

This report also contains meeting minutes from biweekly meetings held between Hydro, Transition to Operations (TTO), and Power Supply in which expectations of supply and energy from the LIL in advance of Winter 2018-2019 are discussed. Minutes from these meetings will be provided with each biweekly update report to the Board.

Hydro's Asset Management Strategy Update

As requested by the Board, Hydro is developing a more robust response to Liberty's Recommendation 4 in its August 30, 2018 report.¹ Hydro will provide this complete response, in the form of a report, as part of its next biweekly filing on October 15, 2018.

To provide context for Hydro's September 7, 2018 response, the initiatives previously submitted to the Board were largely identified, documented, and monitored inside of the annual Reliability Improvement Plans for the hydraulic asset class. Hydro identified that additional initiatives for improvement were either complete, in progress, or planned, but had not yet been compiled under the current Reliability Improvement Plan. Therefore, in the third and fourth quarters of 2018, Hydro has undertaken the development of an expanded Reliability Improvement Plan, focused on the three areas of asset management - process, people, and equipment - as associated with organizational actions related to generating equipment asset management. Other asset classes have also utilized Reliability Improvement Plans since 2016; however, in the September 7, 2018 response, Hydro focused on the hydraulic assets to address comments from Liberty. The report which will be submitted on October 15, 2018 will discuss all generating asset classes.

This biweekly update will be an evolving report but its ultimate focus and purpose will be to meet all Board requirements for updates on Hydro's ability to provide reliable supply to customers for Winter 2018-2019.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO

Shirley A. Walsh Senior Legal Counsel SAW/sk

- cc: Gerard Hayes Newfoundland Power Paul Coxworthy – Stewart McKelvey Denis J. Fleming – Cox & Palmer
- ecc: Van Alexopoulos Iron Ore Company Senwung Luk – Olthuis Kleer Townshend LLP

Dennis Browne, Q.C. – Brown Fitzgerald Morgan & Avis Dean Porter – Poole Althouse

Benoît Pepin – Rio Tinto

¹ The Analysis of Newfoundland Island Interconnected System Power Supply Adequacy for the Winter 2018-19



Labrador-Island Link In-Service Update

October 1, 2018

A Report to the Board of Commissioners of Public Utilities



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Appendix A: Meeting Minutes

1 1. Introduction

2 Hydro closely monitors its supply-related assets and issues to ensure its ability to provide 3 reliable service to customers. The availability of power over the Labrador-Island Link (LIL) for 4 the upcoming winter was identified in previous reports to the Board by both Hydro and Liberty 5 as contributing to supply adequacy in advance of availability of the Muskrat Falls generation 6 supply to the Island. Hydro is working closely with Nalcor's Power Supply leadership [Transition 7 to Operations (TTO), Power Supply Transmission Operations, and the Lower Churchill Project 8 (LCP) Transmission Project] to monitor and mitigate the risks associated with the timing of the 9 in-service of the LIL to supply off-Island capacity and energy to the Island Interconnected System. In each biweekly report, Hydro will also provide an update on supply adequacy for the 10 coming winter with the most up-to-date in-service assumptions of the LIL, as required. 11 12 2. In-Service Activities Update 13

The following outlines the specific critical path activities required for operation of the LIL for Winter 2018-2019,¹ as well as schedule or constraint information for those tasks. As this report is updated on a biweekly basis, information on the key activities and the associated schedule will be provided to inform the Board if any potential supply issues arise from the delivery of those activities.

19

- 20 Appendix A contains minutes from the biweekly meeting² held between Hydro and Power
- 21 Supply, which included discussions on expectations of supply and energy from the LIL for
- 22 Winter 2018-2019, and specific issues that may affect risks of supply over the LIL for the winter.

¹ This report discusses operational readiness for Winter 2018-2019. The final in-service review of the LIL is undertaken separately with the Board's consultant, Liberty, on a quarterly basis with Transition to Operations (TTO).

² The meeting minutes in Appendix A contain two separate meeting dates, as additional time was required in that instance. Going forward this meeting is scheduled to occur once during a biweekly period.

Activity Name		2018			
	Sep	Oct	Nov	Dec	
Winter Readiness					
Project Delivery					
1. Churchill Falls Terminal Station Breaker Upgrade		·			
2. Muskrat Falls Terminal Station 315kV GIS Voltage Transformer Replacement (1 unit)			 		
3. Churchill Falls Terminal Station 315kV GIS Voltage Transformer Replacement (5 units)					
Transition To Operations Delivery			j		
4. RP/ERR: Interim Emergency Response Plan/ERR in place for all Sites/Assets					
5. Contracts: Support services in place & resources onboard		·	ļ		
6. Assets: Operationalize High Freq Preventative Maintenance Program		1			
7. Contracts: Operations, Maintenance & Administrative Services for Monopole		, 	, 		
8. Inventory: Pre Winter 2018 readiness		· · · · · · · · · · · · · · · · · · ·	r.		
9. NLSO: Operational Acceptance Criteria achieved					
10. People: Implement Interim 24x7 staffing model for Muskrat Falls			 		
Power Transfer	[i 		
11. Re-Energize Labrador-Island Link			•		
12. Labrador-Island Link Monopole Commissioning					

Figure 1: LIL In-Service Critical Path Activities

1 **Project Delivery**

2 Activity 1 – Churchill Falls Breaker Upgrade

3 Status: On track for mid-October 2018

- The breaker failure protection in the new Churchill Falls terminal station (CFTS2) is being
 modified to provide greater protection system redundancy. This protection will reduce
 the risk of a broader system impact if a breaker failed to operate as required. This
 modification will make the protection in the new Churchill Falls switchyard consistent
- 8 with what is applied in the existing Churchill Falls switchyard.
- 9

10 Activity 2/3 – 315 kV GIS Voltage Transformer³ Replacements⁴

11 Status: On track

- Muskrat Falls replacement planned for October 1-4, 2018, using the spare unit on site.
- Churchill Falls planned replacements will occur from October 14-30, 2018, 5 voltage
- 14 transformers are currently being manufactured by GE under warranty in France with air

15 freight delivery on schedule for installation by end of October 2018.

16

17 Transitions to Operations Delivery

- 18 Activity 4 Emergency Response Plan (ERP)/Emergency Restoration and Recovery (ERR):
- 19 Interim ERP/ERR in place as required at all sites/assets

20 Status: On track for mid-October 2018

- All interim ERP/ERR plans are in place. The ERR for the overhead transmission line will
- have mock trials concluded by mid-October 2018.

³ 315 kV instrument transformers.

⁴ During initial energization activities, some VT's failed. A Root Cause Analysis (RCA) identified poor quality control during assembly, resulting in new VT's manufactured under warranty. Existing VT's are being replaced with new ones to mitigate identified risk of failure. The spare to be utilized at Muskrat has been checked and confirmed to not have the same quality control issue. The quality control issue that required new Voltage Transformers to be manufactured has been addressed.

1	Activity 5 – Contracts: Support Services in Place and Resources on Board
2	Status: On track for November 1, 2018 start-up
3	• The support services contracts are in place with ATCO, GE and Growler. The personnel
4	under the GE Support Services ⁵ contract for operations remain to be confirmed. These
5	are currently under review and on schedule for completion by the end of October 2018.
6	
7	Activity 6 – Assets: Operationalize High Frequency Preventative Maintenance Program
8	Status: On track for November 15, 2018 implementation for remaining scope
9	Requirements to support operational maintenance of the HVac stations, HVac
10	transmission lines and HVdc transition compounds are in place. Requirements for the
11	HVdc transmission lines and converter stations are ongoing and are on schedule for
12	completion by mid-November 2018.
13	
14	Activity 7 – Contracts: Operations, Maintenance, and Administrative Services for Monopole
15	Status: On track to have required contracts in place for November 30, 2018.
16	• More than 20 operations, maintenance, and administrative service contracts are in
17	place with two of the remaining three in progress for winter operation and one pending
18	initiation upon the date of General Electric (GE) turn over.
19	
20	Activity 8 – Inventory: Pre-Winter 2018 Readiness
21	Status: Completion of inventory on track for November 30, 2018
22	• The Labrador Transmission Assets (LTA) and the LIL station equipment is currently under
23	contractor custody and care. In preparation for the turn-over of the equipment from the
24	contractors, a listing identifying vendor supplied spares, quantities and their location to
25	service both Nalcor's Labrador and Island asset needs for the coming winter season is
26	being assembled from the contractor's records and contract requirements. Critical
27	spares for the upcoming winter have been identified for most LTA and the LIL assets;

⁵ The GE Support contract is independent of the contract for supply, install and construction of the HVdc facilities.

1	however, the inventory of spares for the converter stations is ongoing. Additional
2	recommended spares required beyond the start-up inventory being identified for
3	procurement. The completion of the start-up inventory quantity and location is on
4	schedule to be completed for the end of November 2018.
5	
6	Activity 9 – Newfoundland and Labrador System Operator (NLSO): Operational Acceptance
7	Criteria Received
8	Status: On track for completion by November 30, 2018
9	NLSO acceptance criteria, which are required in order for the LIL to be considered under
10	NLSO control, are being addressed with remaining items related to implementation of
11	remaining SCADA controls, completion/testing of redundant telecom paths and
12	documentation on track for completion by November 30, 2018.
13	
14	Activity 10 – People: Implement Interim 24/7 Staffing Model for Muskrat Falls
15	Status: On track for November 1, 2018
16	• An interim 24/7 staffing rotation is now planned for the Muskrat Falls site to support
17	reliable operations during initial startup/operations due to software control limitations.
18	A Staffing Plan, complete with process for implementation, has started.
19	
20	Power Transfer
21	Activity 11 – Re-Energize Labrador Island Link
22	Status: On track for November 1, 2018
23	• While protection and controls software development and testing are ongoing with GE,
24	the current plan ensures that power transfer can proceed with the current version of
25	software. In the event that a future revision of the software is delivered by GE by end of
26	year, a decision point between Hydro and Power Supply will be required to determine
27	whether the new software will be uploaded. In the coming weeks, Hydro and Power
28	Supply will work together to review the process regarding the decision of implementing

upgraded software, to ensure all parties understand and consider risks of upgrading 1 2 software. 3 4 Activity 12 – Transmission Link Monopole Commissioning 5 Status: On track 6 Power transfer is scheduled to recommence in November 2018 following the voltage 7 transformer outage in Churchill Falls, and will be followed by further dynamic 8 commissioning activity. 9 Power Supply and Hydro are working together to operationalize TransGrid (TGS) studies 10 on the LIL loading. These efforts will consider modelling work and commissioning test 11 results to determine required operational parameters for the upcoming winter. 12 13 Punch list items are continually being addressed and closed by the project team. While punch 14 list resolution shall continue in an effort to improve system reliability, this effort is not 15 considered critical for power transfer. 16 17 As this is the first biweekly report, the discussion on each task will evolve appropriately as the 18 execution of the activities progresses. 19 20 3. Key Risks 21 In addition to the activities described in Section 2, Hydro acknowledges that the as-yet-to-be-22 demonstrated reliability of the current GE software implementation remains the highest risk to 23 the in-service of the LIL. The Power Supply LCP transmission project team has full-time 24 representation in Stafford, England where the software is being developed and tested. Power 25 Supply leadership also continues to work with GE leadership in an effort to establish an agreed 26 path forward for implementing the required software upgrades for sustained reliable 27 operation.

Dynamic commissioning with power transfer activities are scheduled to re-commence on
November 1, 2018 with existing software while testing continues on the upgraded version on
the system simulator in Stafford. If the existing software is proven reliable through November
2018, Hydro and Power Supply will evaluate proceeding with a software upgrade or maintaining
the existing software version. The upgraded software would be considered only after
demonstrated reliable results from the system simulator work.
An additional risk being monitored is the Maritime Link (ML) frequency response to the LIL

An additional risk being monitored is the Maritime Link (ML) frequency response to the LIL 9 initiated disturbances once the LIL is in-service. Should the LIL trip at a rate that causes frequent 10 disturbances on neighboring utilities (Nova Scotia Power and New Brunswick Power), the 11 request may be made by neighbouring utilities to take frequency response out of service. If that 12 were to occur, Hydro would consider limiting the LIL to 50 MW deliveries to avoid under-13 frequency load shed in the event of a LIL trip. If the ML frequency response was turned off, the LIL contribution to the Island's power supply would be similar to a generator, and the reliability 14 15 of the LIL will be the major factor in the decision on loading level. The NLSO will work with Nova 16 Scotia Power and New Brunswick Power Service Operators to keep them informed of testing 17 plans so as to understand and mitigate the risk from their perspective.

18

19 4. Modelled Assumptions

20 At the time of Hydro's previous response, dated September 7, 2018, Hydro understood that 21 once available, the LIL would be capable of transferring 110 MW at a forced outage rate of 22 7.5%. Since that time, and in consideration of the Board's reply to Hydro's response, dated 23 September 19, 2018, Hydro has taken a more conservative view, assuming the same transfer 24 capability coupled with a higher forced outage rate of 30%. The following analysis, conducted in 25 the same format as that provided in Hydro's previous response and Near-Term Generation 26 Adequacy Report, provides insight into the expected loss of load and unserved energy for this 27 assumption, as compared to the Conservative Supply Case from Hydro's Near-Term Generation 28 Adequacy Report. These results with the updated 30% forced outage rate are presented in 29 Table 1.

EUE [°]									
		Holyrood Full Capability ⁷			Holyrood [Declining Ca	pability ⁸		
HRD	Conservative	LIL = 110	LIL = 55		LIL = 110	LIL = 55			
DAFOR	Supply Case ⁹	MW	MW	No LIL ¹⁰	MW	MW	No LIL		
15%	37	97	139	242	142	204	364		
18%	57	146	209	359	202	290	511		
20%	74	185	265	453	250	359	626		

Table 1: Supply Adequacy Modelling Results for Updated Assumptions

	LOLH								
		Holyrood Full Capability ⁷			Holyrood [Declining Ca	pability ⁸		
HRD	Conservative	LIL = 110	LIL = 55		LIL = 110	LIL = 55			
DAFOR	Supply Case ⁹	MW	MW	No LIL ¹⁰	MW	MW	No LIL		
15%	0.69	1.64	2.36	3.95	2.55	3.66	6.33		
18%	1.05	2.40	3.44	5.67	3.52	5.06	8.60		
20%	1.34	3.01	4.30	7.04	4.28	6.15	10.35		

1 5. Contingency Plan

- 2 In light of the new LIL Winter 2018-2019 transfer assumptions, Hydro has developed a two-
- 3 phased contingency plan for the coming winter that includes incremental internal and external
- 4 system support. Phase I of Hydro's contingency plan contains items that can be secured and
- 5 incorporated into Hydro's base planning assumptions for the upcoming winter operating
- 6 season. Details and status of items in Phase I of Hydro's contingency plan are contained in Table

7 2.

⁶ LIL FOR is 1% for the Conservative Supply Case only, all other cases include LIL FOR of 30%. EUE criteria is 170 MWh and LOLH criteria is 2.8.

⁷ Holyrood Full Capacity 170, 170, 150.

⁸ Holyrood declining capacity starts at full capacity in December, declining through the operating season, consistent with behaviour observed during the Winter 2017-2018 Operating Season. Hydro expects the air flow issues that caused the declining performance at Holyrood in Winter 2017-2018 to be materially resolved with the investments completed in 2018. Final testing of the first unit returned to service is being completed week of October 1, 2018. Results will be communicated to the Board via Daily Supply and Demand reports and in this next biweekly report.

⁹ Conservative Supply Case results are consistent with those filed in Hydro's Near-Term Generation Adequacy Assessment, filed May 22, 2018.

¹⁰ The variance of results for the no-LIL case as compared to Hydro's Conservative Supply Case with the LIL delay, as filed in the Near-Term Generation Adequacy Report, results from seasonal reporting in this instance versus annual reporting in the previous filing.

Item	Description	Incremental	Parties	Status	Notes
		System Benefit	Involved		
1	Increase of Capacity Assistance from 90 MW to 110 MW	+20 MW	Hydro, CBPP	Ongoing	In Negotiation.
2	Re-instatement of Capacity Assistance program	+7.6 MW	Hydro, Vale	Ongoing	Term Sheet sent to Vale.
3	Re-instatement of Load Curtailment program	+6 MW	Hydro, Vale	Ongoing	Term Sheet sent to Vale.
4	Voltage Reduction	+20 MW	Hydro, Newfoundland Power	Complete	Hydro has confirmed that it is reasonable to assume availability of 20 MW of Peak Voltage Reduction for the coming winter season. Voltage reduction is forecast on a week- ahead basis by the NLSO.
Poten	itial Incremental	53.6 MW		1	1
System	m Benefit on peak				

- 1 In addition to the items listed in Phase I of Hydro's contingency plan, Hydro has also identified
- 2 elements that can provide additional system benefit, but will only be enacted if absolutely
- 3 required. These items form Phase II of Hydro's contingency plan and are detailed in Table 3.

Item	Description	Incremental System Benefit	Parties Involved	Status	Notes
5	Increased output of Holyrood GT beyond current base assumption	+10 MW	Hydro	Complete	The ability to increase the capability of the unit is available on a temporary basis subject to atmospheric and system conditions. The GT has been previously safely demonstrated to operate to 134 MW.
6	Temporary increased output of Holyrood Diesels	+1.5 MW	Hydro, Department of Environment	Ongoing	Requires approval of Department of Environment.
Potential Incremental +11.5 MW System Benefit on peak					

Table 3: Phase II of Hydro's Contingency Plan

- 1 Table 4 provides the overall impact of implementation of those Items in Table 3, in addition to
- 2 the items implemented as part of Phase I, as compared to the base case (provided in Table 1).

LOL						
	Holyrood Full Capability ¹²			II Capability ¹² Holyrood Declining Capability		
HRD	LIL = 110	LIL = 55		LIL = 110	LIL = 55	
DAFOR	MW	MW	No LIL	MW	MW	No LIL
15%	33	68	121	46	97	176
18%	51	104	182	67	140	251
20%	66	133	232	85	175	311
			LOLH			
	Holyroo	d Full Capab	oility ¹²	Holyrood D	eclining Ca	bability ¹³
HRD	LIL = 110	LIL = 55		LIL = 110	LIL = 55	
DAFOR	MW	MW	No LIL	MW	MW	No LIL
15%	0.60	1.21	2.09	0.88	1.80	3.19
18%	0.91	1.80	3.06	1.25	2.54	4.43
20%	1.15	2.27	3.84	1.55	3.12	5.40

Table 4: Update of Winter 2018-2019 Supply Adequacy withHydro's Contingency Plan Implemented

FUF¹¹

1 As evident from the results, implementation of the aspects noted in Hydro's contingency plan

2 result in a material reduction of risk for the coming winter operating season. Hydro continues

3 to conclude all six noted options and will provide updates on status of each as part of its

4 biweekly updates to the Board.

5

6 6. Conclusion

7 Hydro is actively monitoring the availability of supply as it relates to the LIL and how this

8 impacts reliability of the Island Interconnected System for this coming winter. Hydro's existing

9 and newly developed contingency plans described above are progressing in the event that the

10 LIL does not meet the current assumed capacity and reliability parameters.

¹¹ Includes the LIL FOR of 30%.

¹² Holyrood Full Capacity 170, 170, 150.

¹³ Holyrood declining capacity starts at full capacity in December, declining through the operating season, consistent with behaviour observed during the Winter 2017-2018 Operating Season.

- 1 Hydro will keep the Board informed on developments related to the anticipated LIL in-service
- 2 date and any material changes impacting supply adequacy for the Island Interconnected System
- 3 in its biweekly report.

Appendix A

Meeting Minutes

Meeting Minutes

Purpose	Discuss LIL In Service	Date	September 21, 2018, September 24, 2018		
Chair Jennifer Williams Time		Time	9:30-10:30, 12:30-1:30 pm		
Location	Hydro Place Minutes Taker Meghan Couves				
Attendees	Renee Smith (Hydro), Jennifer Williams (Hydro), Meghan Couves (Hydro), Kevin Goulding (NLSO), Walter Parsons (Power Supply), Josh DeCoste (Hydro), Rob Henderson (TTO), Peter DeSouza (TTO), Steve Follet (Power Supply), Shawn Hurley (Power Supply), Chad Wiseman (Power Supply)				

	Action Plan		
No.	Action Item(s)	Owner	Target Date (DD-MMM- YYYY)
1	S. Follett and S. Hurley (Project Execution) and P. DeSouza and R. Henderson (TTO) to draft key critical path activities required to reach reliable operation for winter for inclusion in Board reporting. Format to be confirmed.	S. Follett S. Hurley P. DeSouza R. Henderson	26-Sep-2018
2	Compile minimum required Newfoundland and Labrador System Operator (NLSO) operational needs for inclusion in critical path activities.	J. DeCoste K. Goudling NLSO	25-Sep-2018
3	Discussion regarding software and associated reliable operation efforts. Currently commencing power transfer on 1-Nov-2018, with existing software, and continuing testing. If existing software proven reliable through Nov 2018, Hydro and Power Supply will evaluate proceeding with software upgrade or maintaining existing software version. Upgraded software would be considered only after demonstrated reliable results from the system simulator work (RTDS). Power Supply leadership continues to work with GE leadership for continued path forward and Power Supply still has full-time representation in Stafford.	Hydro Power Supply	23-Nov-2018
4	Power Supply and Hydro working together to operationalize TransGrid (TGS) studies on Labrador-Island Link (LIL) loading. These efforts will take modelled findings and test findings during commissioning for determining actual operational parameters for winter.	Power Supply and Hydro (combined group)	First meeting 25-Sep-2018 and continuing
5	Compile assessment of risks of changing to upgraded software package in advance of decision whether to implement new software or not as described above. Will be used in evaluation discussion.	S. Hurley	12-Oct-2018

Please note: If there are any comments or amendments to be made to these meeting minutes, they must be brought to the notice of the Meeting Chair within 24 hours of issue and confirmed in writing.



Meeting Minutes

Action Plan			
No.	Action Item(s)	Owner	Target Date (DD-MMM- YYYY)
6	Additional risk item for winter was noted. Hydro is currently planning to utilize the LIL at 110 MW and with frequency response in service. Should the LIL trip at a rate that causes frequent disturbances on neighboring utilities, the request may be made by neighbouring utilities to take frequency response out of service. If that were to occur, Hydro would likely then decide to limit the LIL to 50 MW deliveries to avoid Underfrequency Load Shedding (UFLS). No action required at this time.	n/a	
7	NLSO will work with Nova Scotia Power Inc. System Operator (NSPI SO) and New Brunswick System Operator (NBSO) to keep them informed of testing plans so as to mitigate and understand the risk from their perspective.	-	ongoing
8	No additional high level risks other than software implementation and frequency response item were noted. Critical path activities compiled per Item 1 will be documented and considered for discussion at next meeting if required.	N/A	
9	Current conservative supply assumptions of LIL delivery for winter 110 MW at a 30% forced outage rate. Impact of this set of assumptions to be communicated to the Board in first biweekly report. No change in assumptions required based on this risk discussion. To be confirmed at each biweekly or sooner if new information develops.	R. Smith	01-Oct-2018

Please note: If there are any comments or amendments to be made to these meeting minutes, they must be brought to the notice of the Meeting Chair within 24 hours of issue and confirmed in writing.

