

October 10, 2014

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

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

Dear Ms. Blundon:

**Re: Newfoundland and Labrador Hydro - the Board's Investigation and Hearing into
Supply Issues and Power Outages on the Island Interconnected System - Request for
Project Updates**

Further to the Board's letter of August 1, 2014 regarding the above referenced matter, enclosed are the originals and 12 copies of Hydro's status updates for the following projects:

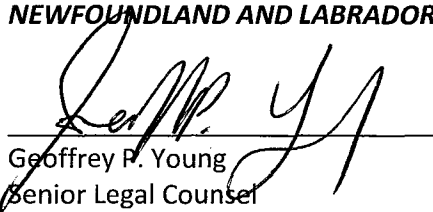
- Sunnyside Replacement Equipment; and
- Western Avalon Terminal Station T5 Tap Changer Replacement.

We trust you will find the enclosed updates to be in order.

Should you have any questions, please do not hesitate to contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO



Geoffrey P. Young
Senior Legal Counsel

GPY/jc

cc: Gerard Hayes – Newfoundland Power
Paul Coxworthy – Stewart McKelvey Stirling Scales
ecc: Roberta Frampton Benefiel – Grand Riverkeeper Labrador

Thomas Johnson – Consumer Advocate
Danny Dumaresque

Sunnyside Replacement Equipment

Status Update Briefing – October 10, 2014

Boundless Energy



Contents

- Project Dashboard
- Progress & Schedule Summary
- Risk Analysis
- Project Photos

(Incremental to information provided September 26)

Project Dashboard

PM - Sunnyside Transformer Project

Joe Yurchesyn

Safety

Quality

Schedule

Cost

Progress & Schedule Summary

1. T1 transformer “Tanking” completed. Factory tests start October 10. Delivery to site November 3 (With route change to reduce delivery risk).
2. Contractor new foundations completed for B1L03 & B2T1 Breakers, B1T1-1 Disconnect and T1 Transformer.
3. B1L03 230 kV Breaker control cables installed and terminated – October 10 RTS planned.

Progress & Schedule Summary (cont'd)

4. New 230kV disconnect B1T1-1 installed and terminated – October 10 RTS Planned.
5. Cable installation for B2T1 Breaker and T1 Transformer started.
6. Commissioning and energization plans initiated.

Progress & Schedule Summary (cont'd)

7. Ready for Service date maintained end of November (December 1).
8. Project continues to track with compliance to plan against Safety, Quality, Cost, and Delivery targets.

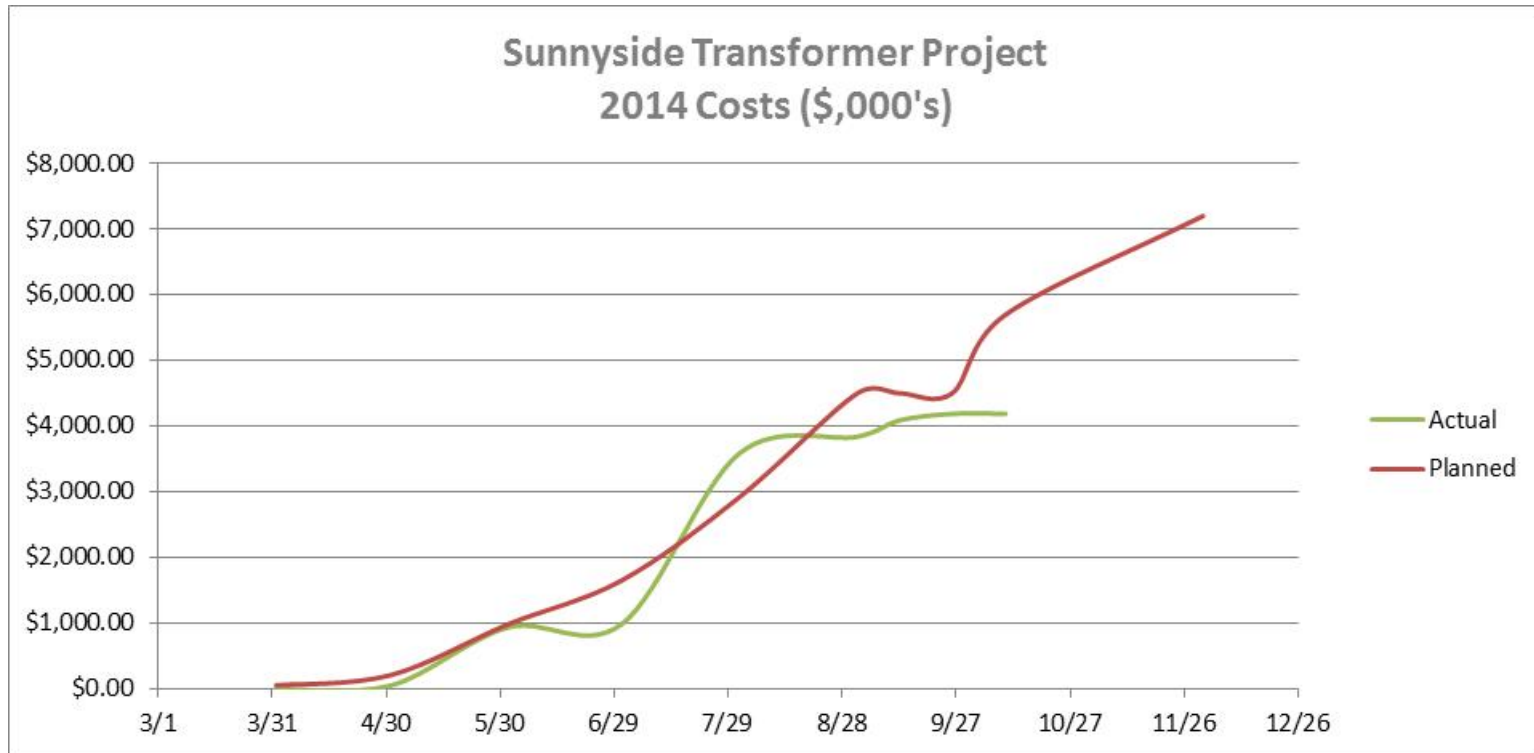
Level 2 - Schedule Summary

Sunnyside Transformer					06-Oct-14																												
#	Activity Name	Remaining Duration	Start	Finish	Comments	June 2014				July 2014				August 2014				September 2014				October 2014				November 2014				December 2014			
						01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07
1	Sunnyside Transformer	84	01-May-14 A	15-Dec-14		[Summary bar from May to Dec]																											
2	PM Tasks	0	25-Jun-14 A	19-Aug-14 A		[Summary bar from Jun to Aug]																											
3	Sunnyside Transformer	84	01-May-14 A	15-Dec-14		[Summary bar from May to Dec]																											
4	Engineering	32	16-Jun-14 A	14-Nov-14		[Summary bar from Jun to Nov]																											
5	Procurement - Material	28	01-May-14 A	03-Nov-14		[Summary bar from May to Nov]																											
6	230 kV Breaker (B1L03)	0	01-May-14 A	01-May-14 A		[Milestone at May 1]																											
7	230/138 kV Auto Transformer (T1)	17	01-May-14 A	03-Nov-14		[Summary bar from May to Nov]																											
8	230 kV Breaker (B1T1)	15	01-May-14 A	22-Oct-14		[Summary bar from May to Oct]																											
9	138 kV Breaker (B2T1)	15	16-May-14 A	22-Oct-14		[Summary bar from May to Oct]																											
10	230 kV Disconnect (B1T1-1)	0	24-Jun-14 A	02-Oct-14		[Milestone at Jun 24]																											
11	Station Post Insulators	9	16-Jun-14 A	14-Oct-14		[Summary bar from Jun to Oct]																											
12	Station Service Transformer	25	30-Jun-14 A	30-Oct-14		[Summary bar from Jun to Oct]																											
13	Station Service Transfer Switch	0	29-Jul-14 A	02-Oct-14		[Milestone at Jul 29]																											
14	HV Risers & Connectors	3	21-Jul-14 A	06-Oct-14		[Summary bar from Jul to Oct]																											
15	Power & Control Cables	0	25-Jun-14 A	22-Aug-14 A		[Milestone at Jun 25]																											
16	Transformer Protection Panel	0	21-Jul-14 A	14-Aug-14 A		[Milestone at Jul 21]																											
17	Transformer Protection Relays	0	25-Jun-14 A	22-Aug-14 A		[Milestone at Jun 25]																											
18	Procurement - Install	0	02-Jun-14 A	12-Aug-14 A		[Milestone at Jun 2]																											
19	Construction - Equipment Removals	84	14-Aug-14 A	15-Dec-14		[Summary bar from Aug to Dec]																											
20	Construction - Foundations Removals/Install	38	03-Sep-14 A	12-Nov-14		[Summary bar from Sep to Nov]																											
21	Electrical Construction	41	22-Sep-14 A	18-Nov-14		[Summary bar from Sep to Nov]																											
22	ABB Schedule T1	11	03-Nov-14	14-Nov-14		[Milestone at Nov 3]																											
23	230/138 kV Auto Transformer (T1)	6	10-Nov-14	15-Nov-14		[Summary bar from Nov 10 to 15]																											
24	230 kV Breaker (B1L03)	4	22-Sep-14 A	06-Oct-14		[Summary bar from Sep to Oct]																											
25	138 kV Breaker (B2T1)	8	22-Oct-14	31-Oct-14		[Summary bar from Oct 22 to 31]																											
26	230 kV Disconnect (B1T1-1)	3	01-Oct-14 A	07-Oct-14		[Summary bar from Oct 1 to 7]																											
27	Station Post Insulators	2	14-Oct-14	16-Oct-14		[Summary bar from Oct 14 to 16]																											
28	Station Service Transformer	1	11-Nov-14	11-Nov-14		[Milestone at Nov 11]																											
29	Station Service Transfer Switch	10	15-Oct-14	27-Oct-14		[Summary bar from Oct 15 to 27]																											
30	Transformer Protection Panel & Relays	27	18-Oct-14	18-Nov-14		[Summary bar from Oct 18 to Nov 18]																											
31	Elect/P&C/Comms. Commissioning	47	06-Oct-14	28-Nov-14		[Summary bar from Oct 6 to Nov 28]																											
32	Breaker B1L03	5	06-Oct-14	10-Oct-14		[Summary bar from Oct 6 to 10]																											
33	230 kV Disconnect B1T1-1	3	08-Oct-14	10-Oct-14		[Summary bar from Oct 8 to 10]																											
34	Breaker B2T1	7	19-Nov-14	26-Nov-14		[Summary bar from Nov 19 to 26]																											
35	Transformer T1	13	13-Nov-14	29-Nov-14		[Summary bar from Nov 13 to 29]																											

█ Actual Work ◆ Milestone
█ Remaining Work ◀ Summary
█ Critical Remaining Work

Cost Summary - S Curve

(Preliminary – Project Accounting Reconciliation in process)



Note: Forecast Final Expenditures (FFE) tracking with compliance with original budget. Actual Costs reflects contractual commitments for major equipment and install contracts.

Risk Analysis

Third Party Facilitated Risk Workshop held July 23 and Actions Review August 7.

Risk Register used to manage risk during Project Execution.

ABB T1 Transformer Assembly and Re-testing -
ABB status update every two days.

Risk Analysis – Example of Issues

- T1 Delivery – Timing, Logistics, Damage
 - ABB Transformer Assembly and Re-testing - ABB status update every two days.
 - Delivery route changed to minimize delay risks.
- Long Lead Miscellaneous Items
 - Monitor ongoing status and expedite.
- Outage requirements.
 - Coordinate outages with other projects.

Project Photos

Photo 1 – 230kV Breaker (B1L03)



Photo 2 – 230kV Breaker (B1L03)



Photo 3 – 230kV Disconnect (B1T1-1)



Photo 4 – 230kV Station Post Insulator Structure; 230 Breaker B1T1 (2015) Foundation



Photo 5 – T1 and 138kV Breaker (B2T1) Foundation



Photo 6 – T1 Ready For Tanking October 7



