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October 24, 2014

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 of Corporate Services & Board Secretary

Dear Ms. Blundon:

Re: Newfoundland and Labrador Hydro Combined Applications - Installation of Diesel Units at Holyrood for the Purposes of Black Starting the Generating Units and Supply, and Install 100 MW (Nominal) of Combustion Turbine Generation - Request for Update

Further to the Board's letter of August 1, 2014 regarding the above referenced matter, enclosed is the original and 12 copies of Hydro's status update for the following project:

• Supply and Installation of a 100 MW Combustion Turbine Generator.

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

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

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO

Senior Legal Counsel

GPY/jc

cc:

Gerard Hayes – Newfoundland Power
Paul Coxworthy – Stewart McKelvey Stirling Scales
Fred Winsor – Sierra Club Canada

Thomas Johnson – Consumer Advocate Thomas O'Reilly, QC – Cox & Palmer Danny Dumaresque

Supply and Installation of a 100 MW Combustion Turbine Generator

Status Update Briefing-Oct 24, 2014





Contents

- Project Dashboard
- Progress & Schedule Summary
- Cost Summary (S-Curve)
- Risk Analysis
- Project Photos

(Includes only material updated since Oct 10, 2014)



Project Dashboard

The project is progressing according to plan and in compliance with Safety, Quality, Schedule, and Cost.





Progress & Schedule Summary

- 1. Installation of u/g utilities is complete
- 2. Transmission Line construction is complete except for the final interconnections which are planned for November.
- 3. Terminal Station tie-in work is proceeding on plan.
- 4. CTG unit assembly is progressing well.
- 5. CTG building slab and electrical room is complete.



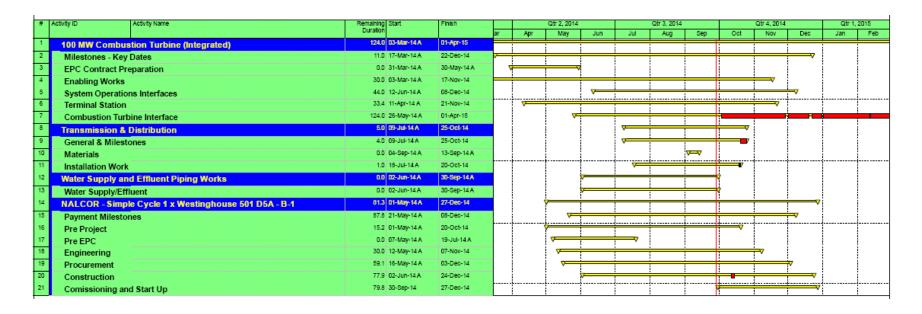
Progress & Schedule Summary (cont'd)

- 6. Civil work is nearing completion.
- 7. Mechanical work is progressing to plan.
- 8. Electrical work had late start, but mitigation in place to recover (double shifting/extended work hours)
- 9. S-Curves reflect tracking in compliance with original plan and EPC contractor is achieving better than planned labour efficiency.
- 10. Overall schedule is tracking in accordance with plan. Ready for service date December 2014.



Level 2 – Summary Schedule

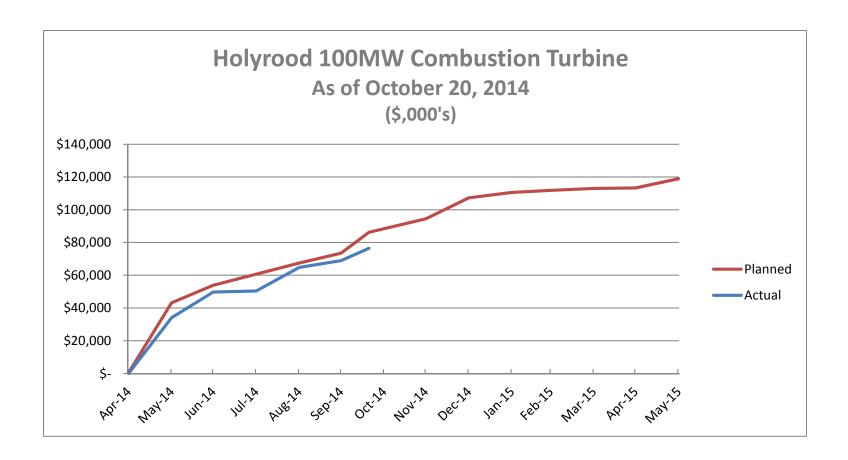
Summary level schedule provided below.



 'Combustion turbine interface' task adjusted as the redundant black start line is not required and can not be connected until the temporary black start diesels are removed from service, which is being planned for 2015.

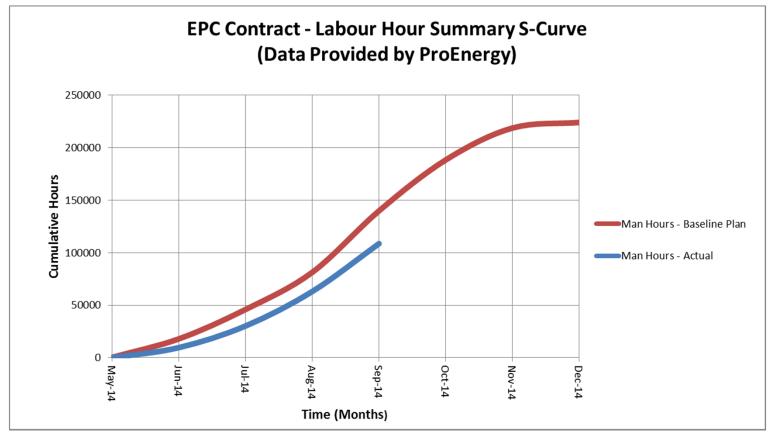


Cost Summary - S-Curve





EPC Labour Hour Summary



Notes:

Planned hours to October (Baseline Plan): 75.7% Actual Progress to October from Schedule: 70.6 %

Actual hours expended to Date: 66.4%

Schedule Performance Index = 0.93 - Indicates tracking in accordance with plan Cost/Hrs Performance Index = 1.06 - Indicates better than planned efficiency



Risk Analysis

A 3rd party facilitated risk workshop was held on June 26th.

Risk Register was produced during the workshop. 50+ risks identified.

Risk mitigation plan in place and being used to manage risk during execution of the project.



Risk: Construction activities lead to contact with energized lines leading to safety incident.

Mitigation: Relocate lines, power line hazard training for operators, use permit system, prepare lift plans, de-energize lines where possible.

(Oct 24 update – No issues to report this period – Several outages taken to work safely)



Risk: Unfamiliarity with new equipment leads to delay in commissioning.

Mitigation: Training included in EPC contract; engage operations and commissioning personnel early in the process.

(Oct 24 update — Operations discussing training and O&M support with ProEnergy)



Risk: Lack of coordination of work with all of the work crews on site leads to safety incident.

Mitigation: HSE Plans; Site Orientations; Contractor coordination meetings; toolbox meetings.

(Oct 24 update – Continue to have coordination meetings with relevant parties)



Risk: Aggressive project schedule does not allow for any delay or rework in design – leads to schedule delay.

Mitigation: Close coordination between fast-track design and construction teams; regular coordination meetings; field engineering engaged with design team, increase shifts as required to pick up any delays.



Risk: Delay in delivery of equipment and/or materials leads to schedule delay.

Mitigation: expediting; order materials as early as possible; identify long lead items early in project; choose appropriate shipping method; identify work around contingency plans.

(Oct 24 – Materials continuously arriving on site, and are continuously being expedited, and are arriving on site with no schedule float.)



Risk: Adverse weather conditions could negatively impact construction progress.

Mitigation: Use of temporary enclosures to protect equipment and allow work to proceed during times of adverse weather.

(Oct. 24 – contractor identifying options for temporary enclosures.)



Project Photos



Photo 1 – Demin Water Treatment Skids





Photo 2 – Fuel Line Pipe Supports





Photo 3 – Equipment Pads on Bldg Slab





Photo 4 – GSU Take Off Structure Foundations





Photo 5 – Fuel Tank Construction





Photo 6 – Exhaust Stack & Rotor Air Cooler





Photo 7 – Demin Water Tanks, Electrical Room, N End of Bldg





Photo 8 – Site Looking North-West





Photo 9 – Site Looking South-East







