



Overland TL – 2017 Look-ahead

7-Dec-2016

Boundless Energy



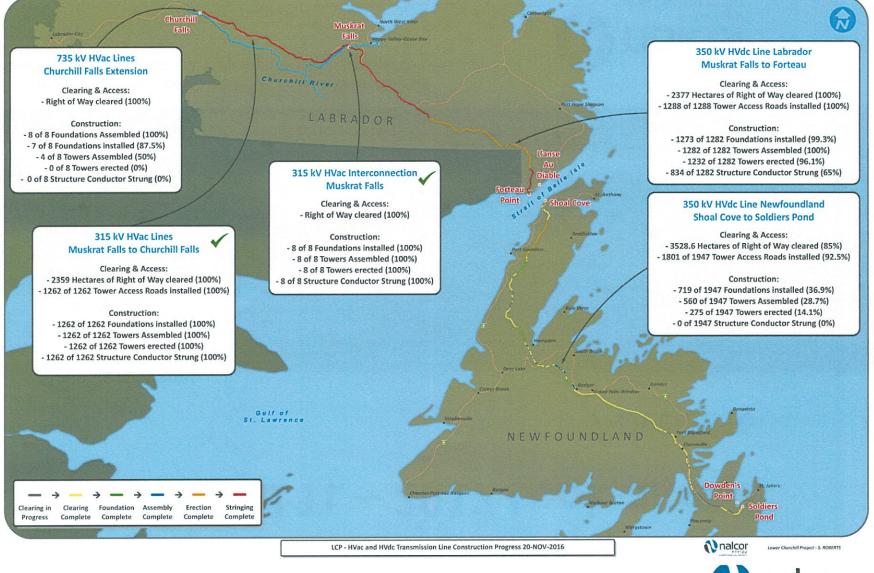
Briefing presentation prepared by J. Kean and presented tonew Project Director - G. Fleming. Meeting occurred 4 -4:45PM in Greg's office



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Progress as of 20-Nov-2016

LOWER CHURCHILL PROJECT





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Over the past 12 months

Leaving 2015

- Overall construction 38% complete
- Significantly behind baseline plan with no recovery plan forecasting late Q1-2018
- Valard just mobilizing to Island; disjointed progress in Labrador
- Dispersed AC and DC work fronts
- Phase 1 AC Rebuilds Complete
- No alignment with Valard on LRM build
- Significant winter work constraints
 - Segment 3, 1 93
 - Segment 2, 1 to 235
 - TNWZ
- HVdc stringing just commencing
- Struggling through learning challenging geotechnical conditions in Labrador

Leaving 2016

- Overall construction 74% complete
- Viable plan to finish line in 2017
- HVac Substantially complete
- HVdc Labrador foundations & towers complete.
 Stringing well advanced.
- ROW and access substantially complete
- Work fronts compressing Island focus
- Phase 2 of AC Rebuilds complete
- 735kV progressing for Q1 completion
- LRM conventional build, access complete, ahead of plan.
- Winter work constraints removed S2 1-235, TNWZ via all-season access
- 45% of foundations complete on Island
- New tools in the toolbox micro and macro pile
- All materials available
- High predictability on foundation conditions



Page 3

2017 Year-Ahead

- Scope is well-defined with many uncertainties removed
 - ROW, access, foundations and conductor
- Organization in-place who understands their roles
- Viable plan in-place, understood by team, weekly targets set
 - Contractor demonstrating a commitment to deliver
- Critical focus areas on team's radar
 - Segment 3 Winter Zone, LRM, restringing
- Process implemented for resolution of open commercial issues







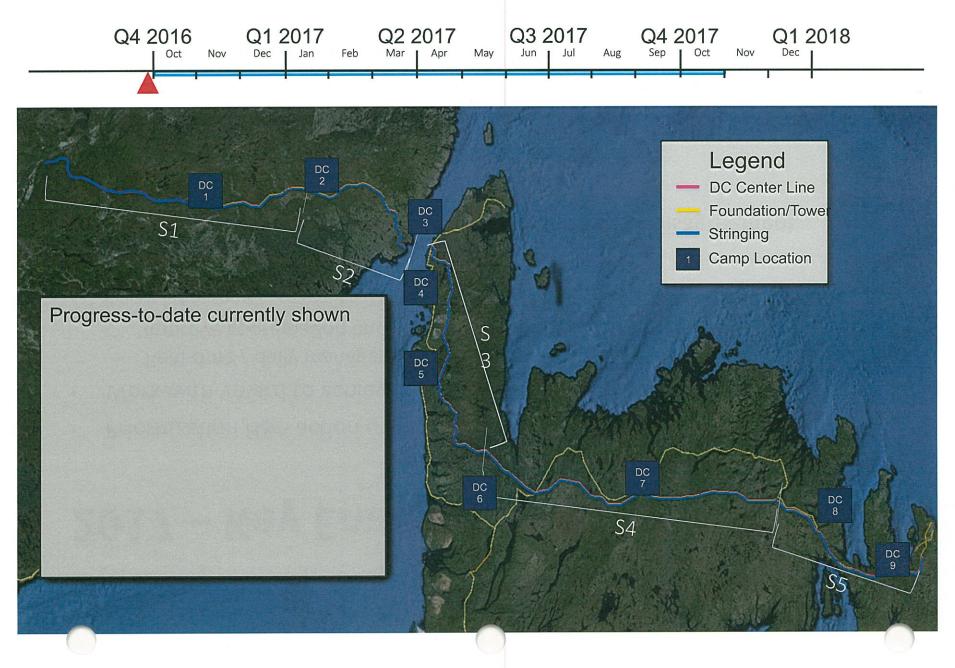
2017 – Key Enablers

- Prioritization H&S action plan against key risks
- Work with Valard to achieve committed production levels
 - Real-time / daily management of deficiencies and opportunities through improve coordination and cooperation (both LCMC and Valard)
- Strong focus on ensure quality objectives are met and risk areas under close surveillance
- Work towards addressing open commercial items of disagreement
- De-risking Tactics
 - Test pitting, geotechnical and advanced groundtruthing
 - Implement Macro-Pile
 - SWOT team approach on open risk areas (e.g. Segment 3 Winter Zone)
 - Investment in critical access (e.g. LRM, TNWZ)



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Schedule Overview





Organizational Design

- Levels and competency to implement strategies and tactics contained in Key Management Plans
- Area-based management approach with 3 key positions
- Scaled (up and down) to reflect level of activity (315 HVac 350 HVdc TL)
- Resources transition from AC to DC TL (each of E, P and C phases) and eventually from Labrador to Island
- Following ROW completion, key resources transition to either access maintenance or line construction

Organizational Design (cont'd)

- 80%+ of resources are field based, with some key positions "roving" to ensure consistency of activity
- Continuity of engineering from design through follow-on support to construction.
 - Home office based providing support to 315kV, 350kV, AC rebuilds, TL267.
 - Engaged in daily construction operations SQs, SINs, Structure staking, survey, sag checks, material issues
 - Field visits when and where required.
- Central and moving field operations office to act as the nerve center. Located in close proxmity to Valard operations.
 - HVGB MY ---> Forteau ---> Deer Lake ---> Grand Falls ---> Arnold's Cove?







Governing Documents

| Lower Churc | | | |
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| | mission Lines Completions Plan | | 350 kV HVdc TRANSMISSION LINES - INSPECTOR'S HANDBOOK Naicor Doc. No. ILK-PT-MD-6200-TL-MN-0001-01 |
| Comments: This document convolues or DH-PH-003-E31) and the Overland TP Thate: (10-74-40000-TH-CA-001-E) Companying B. Rudy for Overlands Some an indicated in the tars: | Nalcor Energy – Lower Churchill Proceeding of the Proceeding of th | Instruction Phase | Total # of Pages: Ducluding Cover}: Du |
| | B1 3015 Issued for Use J. Kean S. Sullivan A1 2-feb-2015 Issued for Review J. Kean | Total # of Pages: [Including Gaver]: 302 | Comments: This document covers the Guality Surveillance strategy for Overland Transmission Total # of Pages (Junder Gover): Still The document covers the Guality Surveillance strategy for Overland Transmission The document covers the Guality Surveillance strategy for Overland Transmission The document covers the Guality Surveillance strategy for Overland Transmission The document covers the Guality Surveillance strategy for Overland Transmission The document covers the Guality Surveillance strategy for Overland Transmission The document covers the Guality Surveillance strategy for Overland Transmission The document covers the Surveillance strategy for Overland Transmission The document covers the Surveillance strategy for Overland Transmission The document covers the strategy for Overland Transmission The document covers |

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