

Valard Performance Discussion

CEO Briefing, 14-Jul-2016

Boundless Energy



As presented to Stan Marshall and J. MacIssac on 14-Jul-2016 (3 -4:30pm) with Lance Clarke. Prepared in preparation for Quanta CEO Duke Austin meeting Stan in St. John's. MacIssac was notably quite during the presentation, while Marshall was very engaged.



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Worker Recognition Program

- Designed to reinforce positive behaviours
- Very positive feedback has been received from the workforce



Being a safety leader while practicing safe actions or behaviors will soon give you the opportunity to earn a C Card.

Stay tuned for more info about the Lower Churchill Project's Safety Recognition Program





Purpose

- Provide background and relevant status information in preparation for meeting with Executives of Quanta and Valard.
- Discuss how we move forward.

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CIMFP E	Exhibit	P-03262

Key Messages

Key Messages	Supporting Information
1 Valard's performance is driving the timing	 Scope of responsibility
for construction completion of LITE and LIA	Progress to-date
	Critical Path to Complete
2 Poor management and leadership from	 Poor Field Coordination and Management
Valard is the underlying root cause	 HVac Line Completion – LD risk
	 ROW Clearing and Access Outlook
	Quality Deficiencies
3 Valard focused on justifying extension of LD	Commercial Recap
grace period; not focusing on solutions.	 LCMC's Solves to the De-Risk Schedule
Quanta Services, who hold the Parent	 Quanta breadth of capability
Company Guarantee, can no longer stand by the sidelines.	 What we need moving forward
5 We are at a critical point where action is required.	 Getting to the Finish Line



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Valard's scope of responsibility is significant (largest LCP contractor by value)

315 HVac Lines (~\$270M)

- Twin lines (247km) Line Construction only, ROW clearing by LCMC
 - 1262 towers
 - >95% complete
 - Rectification of quality NCRs
- 735kV interconnect at CF underway
- Will not achieve Substantial Completion Date of 4-Aug-2016.
 - LDs Cap 10% of Contract Price
 - Days 1 15: \$20k/d
 - Days 2 30: \$40k/d
 - >30 Days: \$60k/d

350 HVdc Line (~\$880 M)

- Single line (1,086 km) Line Construction (Part A -\$820M and ROW Mgmt. (Part B - \$60M)
 - 3229 towers
 - ~23% complete
- Critical path for construction completion of LIL and LTA
- Will not achieve Substantial Completion date of 1-Jul-2017
 - LDs Cap 10% of Contract Price
 - Grace period of 15 d
 - Days 16 45: \$350k/d
 - > 45 Days: \$750k/d

HVdc Clearing & Access (~\$450M)

- Multiple packages and contractors (100% local)
- Envisioned as "Fit-for-Purpose" construction access
- Valard responsible to plan and manage (Part B), however they did not:
 - No access plan
 - "Gold-plated" access
 - Cost overrun ~ 150%
- LCMC stepped in Sep-2015
- Work is now ~80% complete and not on critical path

Material Supply & Mgmt. (\$340 M)

- Procurement and material management by LCMC
 - Multiple suppliers
- LCMC operated Marshalling Yards
- All material delivered

AC Rebuilds (\$20 M)

- AC re-routes on Island
- Significant outage coordination
- Single contractor Locke's Electrical
- On time and on budget



 We've achieved a lot, however predictability of HVdc TL is low given Valard's performance to-date







Valard's lack of willingness to work concurrently in Labrador and Island has resulted in loss opportunity; plenty of areas on Island where crews can be deployed to regain schedule.





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For HVdc line, Valard's progress against approved Contract Schedule (i.e. orange curve) has been <u>poor</u>, forecasting 9 to 12 months late (March to June 2018). With our pushing, last February Quanta executives committed to end of Oct 2017.



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This commitment (blue line) has not been kept by Valard ... they do not appear motivated to get the Work done.



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The net result is that the TL is squarely on the Critical Path, contrary to QRA findings; GE-Alstom risk is decreasing.





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Valard is underperforming expectations, largely driven by poor 2 field coordination and management

I	Key risk: Valarc	l's performance	Pr	ogress to-da	te	
		 Valard has struggled to get organized on the HVdc line, while production and rework rates are outside expectations. Competency gaps are evident. Based upon slippage to-date, Valard will not be able to deliver to their contractual date of 1-Jul-2017, with a risk of slippage 		-	Installed (Oct '14 – June '15)	To-Go
	Details	 into 2018. LCMC will be exposed to incremental cost for maintaining access for extension. Systematic quality problems are leading to extensive rework, thus distracting from the forward progression of the line. 		Guy Anchors	699	2,288
		 It is highly probable that Valard will present a claim against in a attempt to seek relief from LDs 		Tower Erection	725	2,504
		 Valard, with its parent Quanta Services, must develop and recourse a re-baseline plan that demonstrates their ability to 	9	Stringing	385	2,844
	Mitigation	 Adequate experienced PM and CM leadership must be deployed by Valard in order to rejuvenate the site teams Additional foundation and stringing crews are needed LCMC and Valard must address open commercial issues and agree the basis upon the TL will be completed in as timely a fashion as possible LCMC to ensure strong QA oversight over critical works 	<u>Ni</u> 1. 2. 3. 4.	otes: Total structure of Installed as extr 2016 Monthly P Installed is refle documentation ~200 structures The above insta of the HVdc TL of 1,288 towers HVac TL in the p 2015.	count for HVdc TL acted from Valarc rogress Report ctive of Code 1 – a in-place, thus like lled quantities are only and do consic completed by Va period of Jan 2014	is 3,229 I's June Ily short by reflective ler the total ard on the to Mar



HVac Line: Despite strong production rates, quality rework on the AC line will result in Valard missing the Substantial Completion Date

Current Status

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- Stringing Complete
- Counterpoise forecasted to be complete by early August
- Reclamation underway forecast completion by late fall
- 2 of 3 camps demobilized
- Anticipate Valard achieving substantial completion late September

Current Focus Areas

- Rectification of open foundation NCRs related to concrete
- Commence of Completion Walk downs

Activity	Cumulative Structures Reported from 19-Jun-16 to 25-Jun-16	Weekly Total From 25-Jun-16 to 2-Jul-16	Cumulative Total to Date	Percentage Complete	Planned Weekly Total	Cumulative Planned Total to Date	Planned Percent Complete	Total Deviation (in number of structures)
Structure Assembly	1262	0	1262	100.00%	0	1262	100.0%	0
Foundation Installation	1262	0	1262	100.00%	0	1262	100.0%	0
Erection	1262	0	1262	100.00%	0	1262	100.0%	0
Plumbing	1082	0	1082	100.00%	-	-	•	
Counterpoise	914	104	1018	80.67%		-	-	•-
Conductor	1262	0	1262	100.00%	16	1204	95.4%	58
Conductor Tie In	1262	0	1262	100.00%	16	1204	95.4%	58
OHSW	1262	0	1262	100.00%	16	1204	95.4%	58
OHSW Tie In	1262	0	1262	100.00%	16	1204	95.4%	58
OPGW Stringing	650	0	650	100.00%	8	610	93.8%	40
OPGW Tie In	650	0	650	100.00%	8	593	91.2%	57
Reclamation	218	0	218	17.27%	-	-	-	





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Similarly, plenty of effort wasted addressing Nonconformances and Rework on the HVdc TL.

Foundation removal due to poor work <u>methods and inadequate supervision</u>



S1-70 Leg C, reclamation of grillage footing, saturated founding base and backfill.

Rework at Valard's Cost



S1-70, Leg A, Grillage Placement on prepared founding base with groundwater control.



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Unwillingness to accept Contractual responsibilities for Access Management has costed LCP significantly

Details

Underestimation of the work and lack of management by Valard	 The effort required to construct access was underestimated – the project's design philosophy did not contemplate establishment of a permanent access network for construction or operations; no consideration was made for reliability gains to LITL that permanent line access would provide Valard has not fulfilled its contractual obligation for access management – no planning, swayed from "fit-for-purpose," push for all-season Grossly higher road spec on HVdc than on Hvac where Valard was paying the bill
Much effort has been made to mitigate the potential impact	 LCMC has added additional resources to increase field planning and work management, thereby reducing performance cost risk prevalent with T&M contracts Significant amount of Island access has been completed and will support O&M activities, thereby enhancing overall LITL reliability Access has progressed to a point that it cannot be considered a constraint to TL construction
Residual risk remains	 Valard's demand for "all-season" access is threatening winter zone strategies (segment 2 structures 1-235 and Terra Nova); further compounded by "uncharacteristically" mild winters Uncertainty remains for Long Range Mountains and impact of spring break-up on access roads (in particular St. Paul's River Road) Valard likely to request LD deferment for lack of "all-season" access



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Significant forward momentum and costs has been loss due to rework by Valard's failing to adhere to the Technical Spec.

Rework Area 1: Concrete Foundations on HVac Line Concrete strength < 25.5 MPa or no data 616 (49%) of the lattice tower structures (out of a total 1262) on the 315 kV HVac TL in Labrador are installed on a rock surface. Background Including legs of self support structures there are a total of 26, 3% 120, 15% Within specification 807 rock foundations. < 25.5 MPa,</p> For bonding a concrete pad is installed underneath the Grout + 10 mm steel foundation. 661.82% < 25.5 MPa, King</p> 25 It was discovered that the contractor Valard performed a poor job installing the concrete pad at some locations. Those results did not meet project and technical specifications, namely: Poor air entrainment or no Compressive strength found to be low (should be \geq 30 MPa) -Air entrainment out of specification (should be within 3-8%) data No testing data available for some locations (unknown) ____ Some of these locations already had the towers erected and were Issues strung. Where towers were erected and strung, directed given to Within repair 346, 43% specification For locations that were not, Valard replaced the concrete and then Poor or unknown 461, 57% erected the towers. results 148 foundations were busted out and replaced on Valard's own recognizance.



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Our commercial position is strong, while Valard sees the potential for their 9% margin to be eradicated by LDs, hence the commercial position and efforts to shed indirect costs.

315 HVac Lines (CT0319-001)	350 HVdc Line (CT0327-001)
Contract Value: \$270M	Contract Value: \$880M
Unit Price	Unit Price (Part A) + Reimbursable (Part B)
Paid to-Date: \$202M	Paid to-Date: \$191M
Short Paid: \$153k	Short Paid: \$15M (Part B and NCRs)
 Change Orders: ~1.5% of award value (excluding 735kV scope addition) 	 Change Orders: Forecasting 2 to 4% of award value – related to foundations
Disputed Items	Disputed Change Orders: None
 ~\$1.2M for rock busting 	Claims: None, but Valard positioning for:
 View our position as strong 	— Access
Claims: None	— Geotechnical
LDs: Forecasting entitlement to ~\$3 to 4M	 Availability of Tower Material
ada at in the set of the set of the set of the set	LDs: Forecasting entitlement to ~\$80M



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3 We are focus on solutions to reduce schedule risk. **Solve 1:** Alternate Rock Foundation (i.e. macro-pile)

- Current rock foundation is labor intensive, in particular for deep rock applications, requiring both significant excavation, rock leveling, and concreting. Not profitable for Valard.
- Approved design for alternate foundation (i.e. macro-pile) ready for build. Awaiting final proposal from Valard. Plan is to use competent subcontractor LEG.







3 Solve 2: Decision made by LCMC to establish all-rock road access in LRM to improve constructability, thereby de-risk TL build.

Incremental Capital Investment \$30M







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Solve 3: Removing winter-only construction restriction in Eastern NL

- Terra Nova Winter Zone (TNWZ), is planned for construction in winter 2016/17 - ~40km long (100 structures)
- Dominated by boggy terrain, making temporary winter access more cost effective, but unpredictable due to winter conditions
- Decision made to install "conventional" access in this region
- Target completion by in early Q4.
- Incremental Capital Investment \$12M





Solve 4: Removing winter-only construction restriction for interior of Labrador (235 structures)





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Valard's parent, Quanta Services ("Quanta"), have capability and a strong balance sheet.



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While a significant volume of work remains, Quanta has the potential to deploy additional resources across the linear project in order to minimize schedule delay.





4 What we need from Quanta:

- 1. Mobilization of additional foundation and stringing crews
 - 4th Stringing Crew from one of its subsidiaries (e.g. Irby or PAR Electric)
- 2. Active and visible leadership engagement
- 3. Commitment to work to resolve commercial issues and re-set the behaviours



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⁵ Getting to the Finish Line

Achieving April 2018 Energization of LITL – LTA requires:

- LCMC minimizes access and seasonality constraints to the extent practical
- Solving HVdc Conductor file and mobilization of 4th stringing crews
- We must sanction the alternate rock foundation (macro-pile)
- Valard must commit to a plan that supports energization by end of Dec 2017
- Valard must mobilize a Project Director and additional CM resources who are focused on delivering a quality product, not devoting to managing LDs
- Commercial Reset LDs reset in turn for waiver of all historical issues. LDs linked to Dec 2017 completion schedule.



5 Path forward

- LCP has reached a critical decision point concerning the path forward with Valard.
- We must reset and move forward.
- LCMC believe that remaining with Quanta –
 Valard is the optional solution for the Project.



Sharing our ideas in an open and supportive manner to achieve excellence.

Teamwork

Open Communication Fostering an environment where information

moves freely in a timely manner.

Honesty and Trust

Being sincere in everything we say and do.

Relentless commitment to protecting ourselves, our colleagues, and our community.

Respect and Dignity

Appreciating the individuality of others by our words and actions.

Leadership

Empowering individuals to help, guide and inspire others.

Holding ourselves responsible for our actions and performance.

Accountability



Safety