

Project:	Lower Churchill Project	Package No:	CTO327-001
Purpose:	Island Planning Workshop	Package Title:	Construction of 350KV HVdc Transmission Line
Location:	Holiday Inn Deer Lake, NL	Date / Time:	23-Sept-2016, 8:00am – 4:00pm

Attendees:	<u>LCMC</u>	<u>Valard</u>
	Ken Sparkes	Dave Torgesen
	Pat Hussey	Joe Pandiak
	Kumar Kandaswamy	Don Bouzane
	Mark Peddle	Tim Taggart
	Dennis Lever	Alex Budzinski
	Mike Tuff	
	Craig Freake	
	Rhonda Winsor	
Distribution:	Attendees, J. Kean, G. Cahill, K. Williams, R. Taylor	
Recorded by:	Rhonda Winsor	Signature: Rhmda Wh. S.

Item	Description	Action	Date
1.0	Safety Moment: Always be aware of your surroundings during Moose hunting season. Make yourself visible to hunters and while driving, be extra careful of moose running onto the roadways.	Info	
2.0	Meeting purpose and objectives: LCMC requested this workshop in order to ascertain Valard's current outlook for completion of the balance of scope on the Island, as well as assess / discuss critical risk areas requiring both collective focus and alignment.	Info	



Item	Description	Action	Date
3.0	Topic 1- Segment 3:		
	Winter Zone (S3-1 to S3-93) Construction & Access updated by		
	Valard:		
	Valard moving in winter zone (S3-1 to S3-93), in	Info	
	the fall of the year at S3-44 (Flowers Cove) to		
	get an early start.		
	Stringing to start Dec-2016 at structure S3-275		
	and work back to \$3-95.		
	Squid Cove (behind hill) stringing to start		
	Jan/Feb 2017.		
	S3-01 to S3-93 crews to assess, plan is to build a winter road to access for construction.		
	K.Sparkes advised that LCMC require Stream		
	crossing plan clarified and Valard to reach out		
	to LCMC environmental and permitting group.		
	He noted that LCMC has limited Bridges /		
	Culverts readily available to free issue.		
	S3-400 to S3-410 will be completed by Valard		
	West during October and November 2016.		
	The end of December 2016 will see 120		
	foundation completed.		
	B) S3-93 to S3-400 Operations – Valard:		
	S3-275 to S3-93 Stringing to occur Jan/Feb 2017		
	> 55-275 to 55-35 Stringing to occur Jany res 2017		
	Actions LCP/ Valard:		
	Valard will develop and provide to LCMC an	T. Taggart	01-Oct-2016
	access plan (S3-1 to S3-93) to look at permits		
	and also have assessment completed on ROW,		
	with focus on access option in to S3-44.		
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ltem	Description	Action	Date
4.0	Topic 2 – LRM:		
	A) Access & ROW Update – Provided by Ken Sparkes (reference		
	Attachment 1):		
	Progress:]
	Causeway completed at 6 Mile Pond, only		
	guard rail left to install.		
	Average of 300 meters of road being		
	completed daily. (combined North and South		
	Headings)		ļ
	Survey, ground thruthing to be developed on		
	both fronts.		94 at 1
	> S3-399 to S3-410 only 7 structures remaining to		
	clear with some rework along the way.		
	Currently being addressed by MK&S]
	> S3-433 will need further clearing		
	Access roads to get to Zone 3 (Zone 3 is a		
	potential turnaround) from the north end.		
	Clearing a 20 meter wide road.		
	> 40-50 Structures are presently accessible /		
	ready in the north end.		
	Some of the steeper grades have been		
	reduced.		
	Access available on the south end at \$3-586		
	and S3-601. No access for S3-621-S3-630. Work		
	will continue in the area and will be completed before Christmas 2016.		
	> Once winter arrives Taylor's Brook is a heavy		
	snow area with many stakeholder issues. LCMC do not plan to Maintain Taylor's Brook open		
	past Xmas. May be able to re-open in late		
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	spring depending on snow.		
	B) Construction Planning Update Valard:		
	North (Batteau Barrens):		
	> S3-343 to S3-400 - 5 crews will be working in	D. Torgesen	07-Oct-2016
	this area weather permitting.	P. (O:Besett	
	Valard suggested that there will need to be		
	further discussion regarding scope of work		
	regarding the boulder field. Will need to make		
	sure that it lines up with the engineering		
	perspective.		
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Item	Description		Action	Date
4.0		S3-410 will need to be carefully looked at to see if self-support tower can be used on this hill.		
		LCMC to put together internal plan (test pitting, ground thruthing, etc) to prep ourselves for spring in the LRM.	K. Kandaswamy	15-Oct-2016
	>	LCMC suggested that Batteau Barrens (North Heading) would be a better choice to work in the spring due to ease of access and ground conditions (as compared to Taylor's Brook road) and that in its opinion Valard should concentrate work in the north end of LRM.		
	>	Valard concern was that roads were not suitable to haul materials, and bring in manpower to start foundations. LCMC agreed to make sure roads were fit for purpose. LCMC suggested that Valard assess road and meet with Russell Murphy to address their concerns.	M. Peddle / K. Kandaswamy	
	South (Taylor's ➤	Valard will continue working up the ROW just behind Kelly's Camp until planned winter	Info	
		shutdown at Xmas. Valard camp will be up and running the first week of October. Camp will be located at km 51 on Taylor's Brook road. Camp may reopen on April 1 st .		
	>	If the weather is mild in January, work will keep moving ahead from causeway. LCMC asked Dave Torgesen to firm up plan, as keeping Taylor's Brook road open will not be feasible. Dave Torgesen to advice of plan for LRM Southern Heading as October unfolds.	D. Torgesen	30-Nov-2016
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Item	Description	Action	Date
5.0	Topic 3 – Segment 4 (incl. TNWZ):		
	A) Access & Row Update—by LCMC:		
	Progress:		
	 Bridges have been installed at Deadwolf and River Head Brook. In order to facilitate linear build. TNWZ (S4-700 to S4-614) access continuing to be built by SFR & JCL – Expect conclusion by mid-November. Grader from Sheffield planned for Catamaran Access. This Grader will work on access from Birchy Narrows to Badger area. Grader from Triton Brook going to the area behind the mill to Bay D'Espoir highway. 	Info	
	B) Construction Planning – Valard:		
	Camp locations and associated work fronts:		
	 100 Bed Camp in Grand Falls open Oct -2016. Permits have been prepared for Camp Location in the Gambo area. Timeline for this camp to be in operation is Jan-2017. LCMC has significant concerns with Gambo camp location. Company does not intend to maintain roads in this area and they were not substantially upgraded. In lieu of removal of TNWZ restriction and installation. 	Info	
	Winter operations:		
	 735KV teams will be supporting foundation crews from Grand Falls into Gambo. Assembly crew in Labrador will come to the Island and will join crews at Birchy and work east to Grand Falls. 	Info	
	 14 foundation crews will be working from Birchy Narrows to Grand Falls. During winter shutdown in LRM there will be 18 foundation crews working between Birchy Narrows south to Grand Falls / Gambo. 		



Item	Description	Action	Date
5.0	 S4-681 to S4-699 has some of the deeper bogs that may require more test pitting. S4-303 is cut off between Birchy camp and Grand Falls camp. Actions LCP / Valard:		
	 Valard requested that LCMC supply information with locations of quarries both on and off ROW. LCMC developing information and will provide to Valard. LCMC suggested that Valard focus on where they can get a good source of material and LCMC can apply for those permits in advance, considering wait times for approvals can take 4-6 weeks. Also a suggestion was to break up ROW and pick potential sites for Quarries. M. Peddle to discuss further with D. Torgesen 	M. Peddle M. Peddle	15-Oct-2016 15-Oct-2016
6.0	Topic 4 – Segment 5: A) Access and ROW Update –LCMC: Progress: Clearing 50% completed Approximately 6-7 weeks of clearing remaining S5-10 to S5-147 is 95% Completed S5-499 to S5-557 is 99% completed Clearing has 3 active fronts with a completion set for end of November. 8 Active road work fronts S5-10 to S5-147 Approx 3km remain plus punchlist S5-499 to S5-557 Approx 1km remains plus punchlist Witless Bay Line will be used to access S5-523 to S5-557	Info	



Item	Description	Action	Date
6.0	B) Construction Planning — Valard: > 01-Mar-2017 is the projected start date for Foundations in Segment 5. > Valard West moves to segment 5 after S3-1 to S3-93 is complete and will work west to east in Segment 5. > Possible camp location at Arnold's cove is being considered.		
	Actions – LCMC/ Valard: LCMC requested for an updated plan and Tilos of construction and timelines for all Segments. It was suggested that Bog Probing be completed while Clearing and Access equipment was in the area. This would help to plan for any foundation changes in advance. M. Peddle agreed to explore this item. It was agreed by both parties that Valard will share information with LCMC regarding any manning up so that LCMC can oversite resource compliment	J. Pandiak M.Peddle Valard	07-Oct-2016 15-Oct-2016 12-Oct-2016
7.0	Topic 5 – Construction Schedule: A) Review of updated Tilos – Valard: ➤ Tilos will be updated and distributed. ➤ Alex Budzinski will provide the narrative to explain crew movements. B) Short, Medium, Long Term Plans to support schedule: ➤ 14 crews will be working in Segment 4 till November. ➤ Justin's group will work in the Southern approach to LRM until they get pushed out due to weather. ➤ James crew will start at S4-224 with the balance of crews from Labrador and work eastward. ➤ VCQ will continue to work through fall, when conditions become unfavorable VCQ will then move to the winter Zone S3-1 to S3-93.		



Item	Description	Action	Date
8.0	 Topic 6 - Outstanding Actions (time permitting) Mark Peddle facilitated a review of open / outstanding actions from prior workshops. Review Action items from 2 day workshop (7/8-Jul-2016 — Foundation Construction / Quality) Review Action items from 1 day workshop (27-Jul-2016 — Foundation Impass) Review Action Items from 2 day workshop 17/18-Aug-2016 — Geotechnical Investigation/Cribbing/ Excavation/Neat Volumes) — Due to key Valard personnel not in attendance, outstanding items will be discussed at a later date. 		
9.0	Labrador: C&T camp will not be used by Valard after Christmas. All work done from the North Front after Christmas will be from DC2 and Eagle Camps		
	Attachments: 1. LRM Progress map - 1 Page 2. Valard's proposed plan (photos only) - 4 Pages 3. LRM Access Progress Update - 3 Pages 4. TNWZ Production Update - 3 Pages 5. Segment 5 Production Update - 12 Pages 6. LCP Access Update Slide - 22 Pages		

Contract/Supplier hereby agrees that Contract/Contractor has reviewed and agrees with the content and accuracy of these Minutes of Meeting.

Valard Construction LP:	LCMC:	101(/, 0/
Signature:	_ Signature:	Mark to do lo
Name (please print):	Name (please print):	Closed D
Date:	_ Date:	-15-Dec-2016.