

 <p><b>nalcor</b> energy <small>LOWER CHURCHILL PROJECT</small></p>	<h2 style="margin: 0;">Minutes of Meeting</h2>
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<b>Project:</b>	Lower Churchill Project-HVdc Specialties	<b>Contract #</b>	CD0501-001
<b>Purpose:</b>	Monthly Progress Meeting #14	<b>LCP Rec. No:</b>	MOM-CD0501001-0082
<b>Location:</b>	Alstom Grid St John's Office	<b>Date / Time:</b>	16-Jul-2015 /9h30AM

<b>Attendees:</b>	<u>Company</u> Pierre Sasseville Jeff Coady Ken Almon	<u>Alstom Grid</u> Emmanuel Aumente <u>Alstom Grid (by phone)</u> Alex Ison Michel Raymond Claude Mandeville Marc Mariage Lyne Reid Eric Guimond Cyrille Boussuge Joelle Poirier	CC: Darren DeBourke Trina Troke John Flitcroft Thierry Martin
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<b>Distribution:</b>	Attendees plus CCs	
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<b>Recorded by:</b>	Pierre Sasseville	<b>Signature:</b>	
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ACTIONS		
Item No.	Description	Action / Date
1.	<b>Safety Moment</b> (see p.2 of the attached presentation).  Ensure vehicle is in good condition before heading for vacation.	
2.	<b>Executive Summary-Engineering</b> (see p.5 of the attached presentation)  Contractor is asked to report on the progress against the revised baseline. This will be done next month. Ms. Sherry Power will travel to Contractor's office to look at the PDM status.	Contractor
3.	<b>HVdc and Transformers-Opportunities and Challenges</b> (see p.13 of the attached presentation)  Presentation mentions that Contractor is awaiting validation of PSCAD files by Company. But Company is awaiting info from Contractor to be able to do the validation. Contractor will verify. Commercial issues will follow technical solution.	Contractor

 <p><b>nalcor</b> energy <small>LOWER CHURCHILL PROJECT</small></p>	<h2 style="margin: 0;">Minutes of Meeting</h2>
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<b>4.</b>	<b>Executive Summary-Project Organization</b> (see p.14 of the attached presentation)	
	Company asks if there is a risk of Contractor's personnel turnover. Contractor answers that it is minimal.	
<b>5.</b>	<b>Quality Management</b> (see p.19 of the attached presentation)	
	-Contractor is waiting for the native files of the audit report to respond to each item. -Company will issue response to the ACT actions identified by Contractor	Company  Company
<b>6.</b>	<b>Risk Management- Major Risks</b> (see p.21 of the attached presentation)	
	-R017- Risk should be better defined as the situations mentioned have already occurred. -R015-Study to eliminate shunt reactors should be identified as a mitigation measure. -Company requests Contractor to organize a Risk Management meeting within 2 months.	Contractor
<b>7.</b>	<b>Interface Management</b> (see p.22 of the attached presentation)	
	- Contractor identifies it is waiting for deliverables coming from Company's Marine Crossing Team (MCT). Company answers that the Stafford meeting was held to discuss these items. MCT is waiting for some isolation studies from Contractor. - Company will supply next week information on what will be bought by MCT so Contractor can further advance its studies.	Contractor  Company
<b>8.</b>	<b>Engineering Overview</b> (see p. 23 of the attached presentation)	
	-Contractor informs Company that, because some delays have been encountered on the issue of BOP schematics, subcontractor RCMT has been retained. -Company comments that the Progress curve shows three times more drawings to be issued in July than June. This seems unrealistic because of the vacation period and also because, as of 15-July-2015, this has not materialized.	





**Minutes of Meeting**

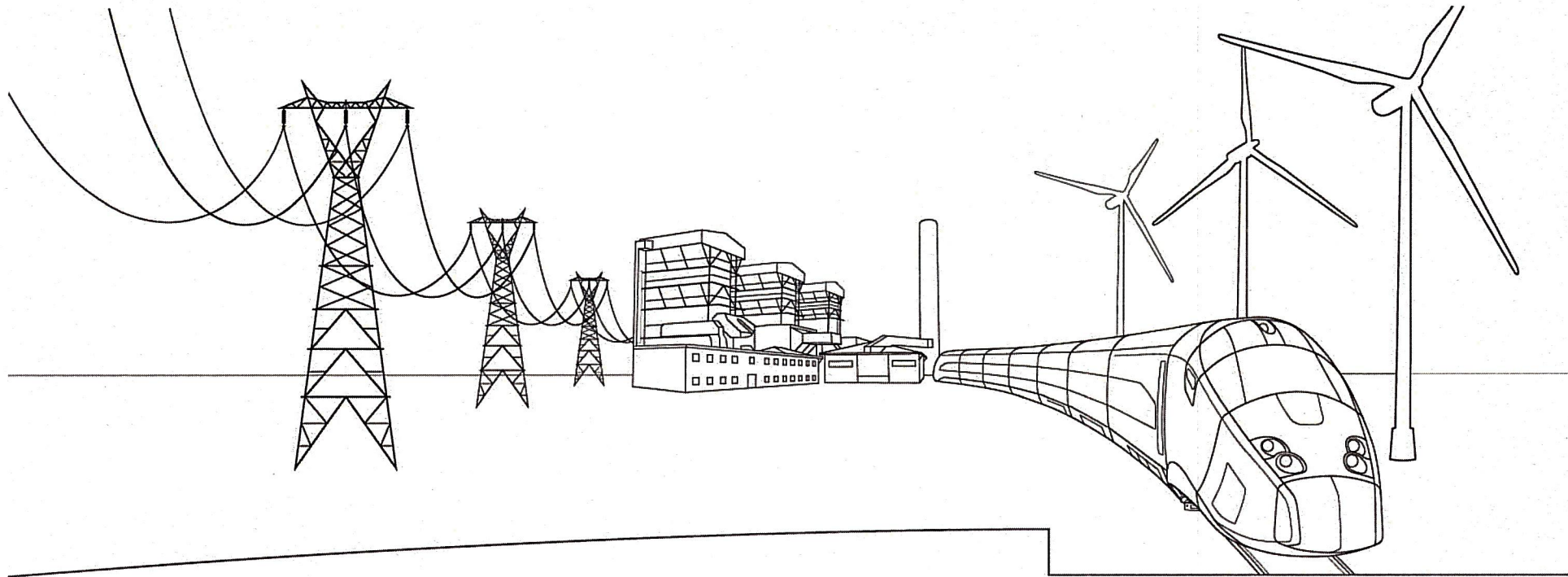
	<p>-Contractor is waiting for document numbers. Schematics have been split thus creating more documents. Contractor wants to know if the numbers will be issued by the end of month. Company will verify the situation following the meeting.</p> <p>-Both Company and Contractor agree that tighter relations are needed to follow requests for document numbers.</p>	Company
<b>9.</b>	<b>Engineering Action Plan</b> (see p.26 of the attached presentation)	
	<p>-Contractor must schedule a second Hazard Operational and Maintenance Identification review.</p> <p>-Company asks if Contractor has given instructions to remove the shunt reactors from the layouts. Contractor mentions it is waiting for the ECN to be issued by Company.</p> <p>-Company asks Contractor to verify status of impact of increased voltage on transformers. Contractor will verify status of specifications revision.</p> <p>-Company reminds Contractor to submit revised Civil Works Bill of Quantities following issue of the IFC drawings.</p>	<p>Contractor</p> <p>Company</p> <p>Contractor</p> <p>Contractor</p>
<b>10.</b>	<b>Procurement Overview</b> (see p.31 of the attached presentation)	
	The transport infrastructures situation must be settled rapidly. Contractor is issuing RFP to transport companies and will be more able to discuss the situation when the proposals are received.	Contractor
<b>11.</b>	<b>Construction Action Plan</b> (see p.35 of the attached presentation)	
	Contractor is waiting for reviewed Construction Management Plan. The reviewed version has already been issued by Company.	
<b>12.</b>	<b>Invoice Status</b> (see p.38 of the attached presentation)	
	Company reminds Contractor that the Stantec lien must be released before further payments.	

Attached: -LOWER CHURCHILL CONVERTER STATIONS AND TRANSITION COMPOUNDS PROJECT- June 2015 Monthly Progress Meeting-

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

Signature: \_\_\_\_\_  
 Name (please print): \_\_\_\_\_  
 Date: \_\_\_\_\_

Issued on behalf of: LABRADOR-ISLAND LINK LIMITED PARTNERSHIP



# LOWER CHURCHILL CONVERTER AND TRANSITION COMPOUNDS PROJECT

June 2015 MONTHLY PROGRESS MEETING

Date: 16-July-2015

**ALSTOM**  
*Shaping the future*



# Safety Moment

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- With the approaching vacation period ensure that the vehicle is in good conditions before hitting the road

## Executive Summary- Health and Safety Statistics

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- 0 (zero) person-hours were spent on site this month for a total to date of 1768 person-hours on site. There were no first aids, medical aid injuries or LTIs to report this month from any of Contractor's employees or Subcontractors. Cumulative LTI frequency is 0.
- There was no environmental or Health and Safety events to report this month.



## Executive Summary- Overall Project

- The actual overall cumulative progress is **13.3%** (vs 12.1%) against a baseline of **21.6%** (last month 18.9%).
- Part of this delay is due to the reforecast of engineering documents as per the strategy of re-aligning the engineering phase, with the priority given to the Civil Works deliverables and procurement long lead items.
- The critical path remains as per the month of Mai 2015, with the manufacturing, delivery and erection works of the Converter Transformers at Muskrat Falls. The critical path leads to a substantial completion of the Project in-line with the baseline. Close attention is being given to the subcritical as activities related to the Filters/reactors are still at risk of returning to the critical path following the proposed mitigation plan in regards to delay the Harmonic Impedance. This issue requires an urgent resolution (CHR008)
- A solution to mitigate the limited DC current capability of the undersea cable was proposed on 9-June-2015 by Contractor.

## Executive Summary- Engineering

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- Overall cumulative engineering progress is **30.3%** against a baseline of 44.7% based on PDM data. **34,9%** against a baseline of 71,2% based on Primavera.
- The change in HVDC cable length may cause further impact to engineering progress, as the low order DC side resonance has moved close to the fundamental frequency. Mitigation scenarios are under evaluation.



## Executive Summary- Procurement

- Overall cumulative procurement progress is **20 %** (vs last month 18.6%) against a baseline of **23.9%** (vs last month 21.5%) currently 3.9% behind the plan. This is an increase from last month's 2.9% behind of the planned progress.
- The CD504 LNTP was signed by H.J. O'Connell Construction Ltd. (HJOC) for Soldiers Pond and Pomerleau Inc. for Muskrat Falls.

## Executive Summary- Construction

- Construction baseline schedule progress is at 0% against a baseline of 1,04%. Mobilization started as Company approval and permitting is granted
- The planned LNTP award(s) are to two separate Civil Works Contractors', one for Muskrat Falls site and the second one for the Soldiers Pond site.
- The LNTP award(s) are to two separate Civil Works Contractors', one for Muskrat Falls and Churchill Falls site and the second one for the Soldiers Pond site. The early June award of the LNTP(s) is a delay of approximately 4 weeks compared to the planned date of 8-May-2015.
- The Civil Works was expected to begin at Soldiers Pond and Muskrat Falls Converter Stations by mid-June 2015 but has been delayed until July 2015



# May 2015 Project Progress Status Summary

Phase	Planned Progress this Period	Actual progress this Period	Planned Progress To Date	Actual Progress To Date
Overall	2.7%	1.2%	21.6%	13.3%
Overall SPI (Actual/Plan)		0.44		0.62
Engineering	7.0%	3.9%	71.2%	34.9%
Engineering SPI (Actual/Plan)		0.56		0.49
Procurement	2.4%	1.4%	23.9%	20.3%
Procurement SPI (Actual/Plan)		0.58		0.85
Construction	1.0%	0%	1.0%	0%
Construction SPI (Actual/Plan)	N/A	N/A	N/A	N/A
Commissioning	0.0%	0.0%	0.0%	0.0%

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# KPIs

Key Performance Indicator (KPI)	Target	Cumulative Last Period (May)	Cumulative This Period (June)	Comment
<b>Safety</b>				
LTIFR (Lost Time Injury Frequency Rate)	0,0	0,0	0,0	
<b>Overall</b>				
SPI (Actual Progress/Planned Progress)	1,0	0,64		Engineering and Procurement behind Planned Progress
% Risk Mitigation Actions Completed	100%	100%	100%	Risk Mitigation Actions are ongoing
<b>Quality</b>				
% Internal Audits Completed on Schedule	100%	92%	92%	Refer to comments in Section 4.4
% External Audits Completed on Schedule	100%	N/A	N/A	
% of NCRs Closed Within 30 Days	100%	N/A	N/A	Refer to Sections 4.1, 3 NCR's still open
Avg. # of Days for Correction Action Completion	< 2 months (Corrective Action Taken- monitoring to continue to remain open for monitoring purposes)	75	49	Four Corrective Actions in Progress. For May = 75 days, 2 CARs open, CAR 233 & 244 For June = 49 days, 3 CARs open, CAR # 0233, 0244 & 0250 + 1 PAR # 0249
<b>Engineering</b>				
SPI (Actual Progress/Planned Progress)	1,0	0,64	0,67	Compare to the Frozen reforec
Avg. # of Days from 1st Submission to Acc	45	33	38	
Avg. # of Days for LCP Review	15	14	13	
Avg. # of Submissions Prior to Acceptance	1,0	1,5	1,7	
Avg. # of Days Variance from Planned SDR Date (Only for 30 Days Look ahead)	1,0	10		194 were planned to be send during the period of April 21 to May 20 20 documents are canceled 69 documents have been transmitted to Nalcor. If we look only at the period of April 21 to May 20, 49 documents were delivered, the other documents were delivered in advance.
<b>Procurement</b>				
SPI (Actual Progress/Planned Progress)	1,0	0,87		Progress below target.
<b>Civil Construction</b>				
CPI (Actual Progress/Planned Progress)	1,0	N/A	N/A	Construction not started
Forecast Cost for Civil Construction/Target	100	N/A	N/A	Construction not started
<b>Electromechanical Installation</b>				
SPI (Actual Progress/Planned Progress)	1,0	N/A	N/A	Installation not started
<b>Commissioning</b>				
SPI (Actual Progress/Planned Progress)	1,0	N/A	N/A	Commissioning not started

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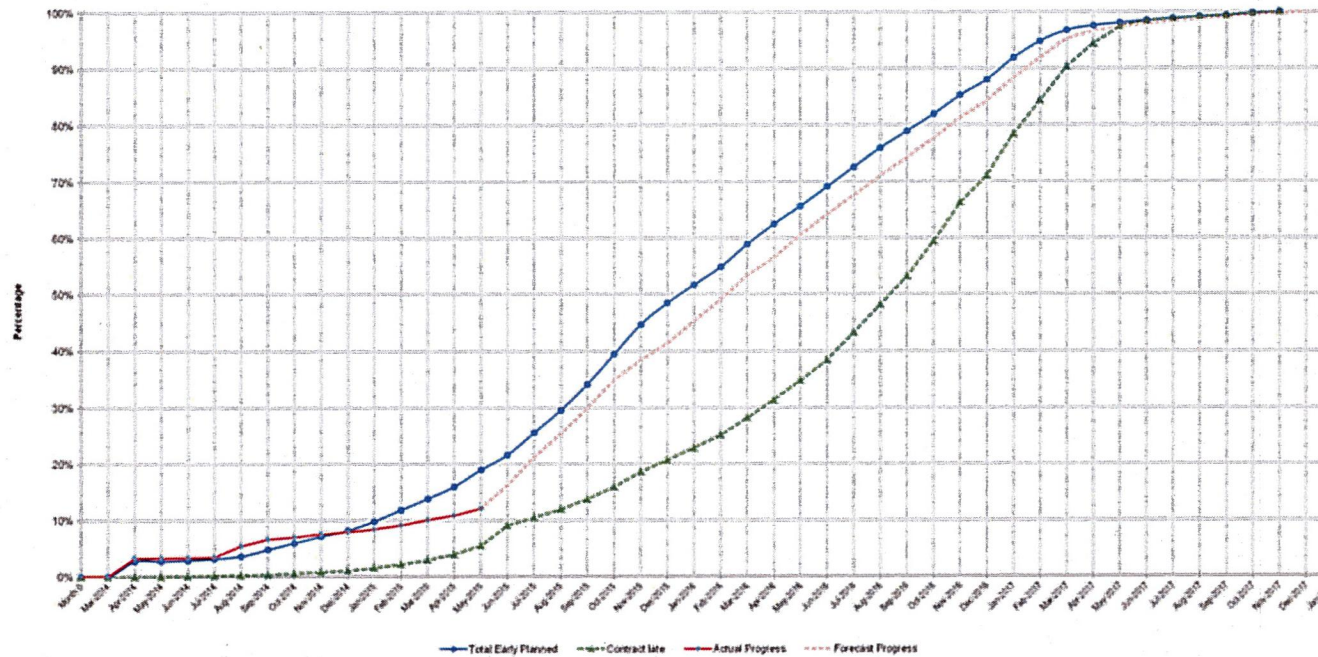
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# Project Status- Progress

- For June's progress period, the overall cumulative progress is 13.3% against a baseline of 21,6%.

## Overall Progress Curve





# Key Milestones

CD0501 - LCP PROJECT - Project Key Milestones						
Data Date: 21-May-2015						
#	Activity	Baseline Date	Actual Date	Forecast Date	Variance	Comments
1	Limited Notice to Proceed	31-Mar-2014	31-Mar-2014		0 days	
2	Contract Execution signed	19-Jun-2014	19-Jun-2014		0 days	
3	Site(s) Plot frozen - MF, SC, FP	15-Sep-2014	14-Jan-2015		-80days	
4	Site(s) Plot frozen - SP	31-Oct-2014	15-Jan-2015		-46days	
5	Civil Engineering Complete for TX bunds - MF	26-Jan-2015	08-May-2015		-73days	
6	Civil Engineering complete for TX bunds - SP	26-Jan-2015	19-May-2015		-79days	
7	Muskkrat Falls Converter Station Mobilization start	04-May-2015		03-Jun-2015	-22days	
8	Soldiers Pond Converter Station Mobilization start	13-Apr-2015		03-Jun-2015	-37days	
9	Civil Foundations (2015) Completed TR6- MF	13-Nov-2015		12-Nov-2015	1day	
10	Civil Foundations (2015) Completed TR3 - SP	25-Sep-2015		13-Oct-2015	-12days	RFP process started late and not progressing according to the original plan. Delay in the Forecast Start Date of Civil Work and mobilization
11	Building Enclosed (Cladding) - MF	07-Jan-2016		18-Mar-2016	-47days	RFP process started late and not progressing according to the original plan. Delay in the Forecast Start Date of Civil Work and mobilization
12	Building Enclosed (Cladding) - SP	21-Jan-2016		21-Mar-2016	-40days	RFP process started late and not progressing according to the original plan. Delay in the Forecast Start Date of Civil Work and mobilization
13	Civil Foundations (2016) Completed - MF	04-Oct-2016		19-Sep-2016	11day	
14	Civil Foundations (2016) Completed - SP	22-Nov-2016		07-Nov-2016	11day	

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# Key Milestones (continued)

CD0501 - LCP PROJECT - Project Key Milestones						
Data Date: 21-May-2015						
#	Activity	Baseline Date	Actual Date	Forecast Date	Variance	Comments
15	Transformer Erection start - MF	06-Sep-2016		06-Sep-2016	0day	
16	Transformer Erection start - SP	29-Apr-2016		29-Apr-2016	0day	
17	Transition Compounds Pre-Fab Building & Electromechanical Installation Complete	23-Mar-2017		05-Apr-2017	-9day	
18	Transformers Erection Complete - MF	06-Apr-2017		06-Apr-2017	0day	
19	Electromechanical Installation Complete (TR7) - MF	05-May-2017		05-May-2017	0day	
20	Transformers Erection Complete SP	25-Apr-2017		25-Apr-2017	0day	
21	Electromechanical Installation Complete (TR7) - SP	03-May-2017		03-May-2017	0day	
22	Static Commissioning Completed (Soldiers Pond)	18-May-2017		13-Jun-2017	-18days	Not critical as MF Static Commissioning is driving the schedule
23	Static Commissioning Completed (Muskrat falls)	15-Jun-2017		15-Jun-2017	0day	
24	Dynamic Commissioning Completed	15-Aug-2017		15-Aug-2017	0day	
25	Contractor Substantial Completion	15-Nov-2017		15-Nov-2017	0day	

# Opportunities and Challenges

- **HVDC & Transformers**
- *Challenges:*
- Contractor notes Company acceptance of proposed 2% increase in voltage to facilitate the maximum power transfer capability. Technical details were agreed during Company visit to Stafford, UK during w/c 15-Jun-2015. Work is now ongoing to amend specifications and other documentation in order that this change can be implemented.
- Further to Company's clarification of the reduced length of the HVDC submarine cable between Forteau Point and Shoal Cove with the resulting resonant harmonics, Contractor has submitted further details during June. Discussion as to the optimum solution took place at Stafford during w/c 15-Jun-2015. Currently contractor is awaiting validation of PSCAD files by Company in order to progress this issue further.



# PROJECT ORGANIZATION & STAFFING, MANAGEMENT

## New or Reassigned Employees

Name	Function	Start Date
Marc Mariage	LCP Project Engineering Director	15-Jun-2015
Cyrille Boussuge	HVDC Project Director	01-Jun-2015
Eric Guimond	HVDC Project Engineering Director	15-Jun-2015
Sudhakar RAMPURKAR	Control Technical Director)	15-Jun-2015

- Project Management

- Due to changes in project management team in June, the current revision to the Project Execution Plan will be postponed until early August 2015.

# Environment, Health and Safety

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- no Health or Safety issues or concerns to report.
- no Environmental issues or concerns to report.

# Environment, Health and Safety

## Regulatory Compliance

See Appendix 8 for the Permit Register details.

## Opportunities and Challenges

- No Environmental Opportunities and Challenges to report.
- No Health and Safety Challenges to report.

## Accomplishments

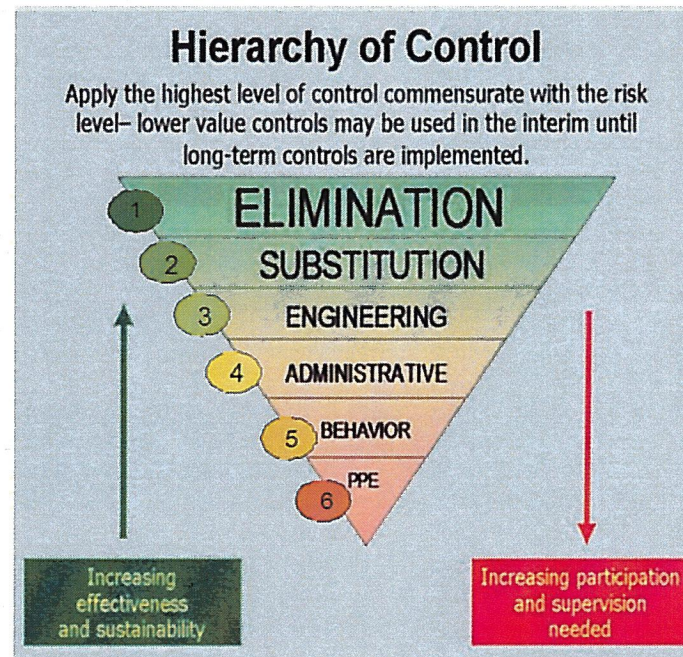
- SP, MF Site Specific Health and Safety Plan were submitted and status is approved by the Company
- SP, MF Site Specific Environmental Plan were submitted and status is - not approved (with comments)
- SP, MF Site Specific Emergency Response Plan were submitted and status is – approved by the Company
- As these latest documents are not contractual documents, review of not approved documents will be done as time schedule will allow



# Environment, Health and Safety

## Accomplishments

Contractor had an EHS HAZID session with Company in order to identify EHS hazards at design stages and to mitigate them using Contractor's hierarchy of Control as per below



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# Quality Management

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## **Nonconformity Management :**

Please refer to June monthly report #14

## **Preventive and Corrective Actions :**

Please refer to June monthly report #14

# Quality Management

## Inspection Activities

The PITP was approved and submitted as a B1 on 18-Jun-2015

## Auditing Activities

1 Audit was planned for June 2015 as per ILK-AS-SD-8000-QA-Q07-0001-01, Internal Audit Schedule.

This audit # S5 "Procurement" has been postponed due to the small number of equipment purchase orders released at this time. Rescheduled for August 2015.

The Audit # 2 "Procurement activities" for TST unit postponed in April 2015 was completed this month.

Contractor received the Company's Audit Report on 19-Jun-2015 for the Audit performed at Contractor La Prairie Office site (20-21-May-2015). Contractor waiting the new transmittal from Company including the native files in order to officially respond to each CAR-PAR.



# Quality Management

## Planned Tests / Hold Points (This month Actual/ next Month Planned)

Valve module Fault Current Type Test was successfully completed on 12-Jun-2015

# Risk Management – Major Risks

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- **R017** – Engineering – HVDC Submarine Cable - Technical Parameters and characteristics
- **R015** – Engineering - Harmonic Impedance Study - New models - Additional Components
- **R003** – Engineering Construction-
- **R002** – Engineering - Civil Work Design Engineering - Delays on the change process
- **R009** – Construction - Transportation and road access- Main Critical Equipment Delivery

(Please refer to monthly report #14 for details)



# Interface Management

## Overview

- The following table summarizes the interface point (IPs) in progress:

Qty of IPs	Previously	Actual
Open	29	38
Closed	4	10
Other identified IPS	102	87
<b>Total</b>	135	135

## Activities

- Issues & Concerns:

Contractor is waiting for deliverables coming from the Company's Marine Crossing Team, related to the Cable Sealing End and Surge Arrester characteristics & general arrangements

# Engineering Overview

Overall cumulative engineering progress is **30.3%** against a baseline of 44.7% based on PDM data. **34,9%** against a baseline of 71,2% based on Primavera

Following an agreement with the Company's Project Controls management, the overall cumulative engineering progress shall be progressively reported from Primavera

Unit	Planned (%)	Actual (%)	Next Period
BOP	34.5%	20.2%	38.7%
PES	53.3%	25.4%	59.4%
TST	0%	16.7%	0%
CWE	74.4%	46.2%	75.6%
Overa II	40.7%	26.1%	44.7%
<b>APRIL 2015 (Last period)</b>			
Overa II	36%	21.7%	40.7%



# Engineering Opportunities and Challenges

## Challenges:

- Engineering progress to date is less than planned. The engineering deliverables recovery plan is under deployment to correct the document delivery delays. Further actions to be implemented by Contractor and Company to improve the efficiency of the engineering.
- The HVDC cable limited current capability and changed length may cause further impact to engineering progress..
- Harmonic filters technical approval required numerous exchange and justification to obtain company acceptance. Following meetings with Company in Stafford during w/c 15-Jun-2015, the parameters of the AC filters have been agreed although Company still needs to issue acceptable ECN to allow removal of the Shunt Reactor(s) from the design

# Engineering Accomplishments

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- During HVDC design workshop held during week of 15-Jun-2015, significant progress was achieved on document review of key HVDC documents. Company and Contractor have also agreed on the main principles of the mitigation for the limited DC cable current carrying capability. Remaining details concerning this solution will require prompt agreement between Company and Contractor in order to avoid further delays.
- Solutions to mitigate the limited DC current capability of the undersea cable were proposed by Contractor to Company on 09-Jun-2015.
- Successful completion of Fault Current Type Testing on 12-Jun-2015



# Engineering Action Plan

## Coordination Activities

- Contractor jointly reviewing IFC documents prepared by the Civil Works Engineering in order to insure alignment with document prepared by the BOP.
- The purpose of this cross checking of documents is to make sure all of the information is correct before integration in the 3D model. It provides an opportunity to adjust or correct any discrepancies. The areas of concern are the Control Building/Valve Hall/ Star-Delta and Converter Transformers.
- Further coordination with the Civil Works engineering and the Construction Management Team to improve the alignment of the planning of the engineering activities with detailed construction schedule.

## Design Reviews Scheduled in the coming month:

- Design reviews on 06-Jul and 07-Jul-2015 on Control and Protection documents.
- Hazard, Operational and Maintenance requirement Identification to be followed up with Company in a second Review using the 3D model with Company

# Engineering Action Plan

## Engineering Documentation in the coming months:

- Detailed ITP of DC Insulators to be submitted.

### **BOP:**

- Submission of updated Converter station layouts updated as per latest Reactive Power Management report and final decision for the Shunt Reactors
- Submission of Control and Protection General Arrangement , Three Line and Schematic Diagrams
- Valve Hall Grounding plan
- LV control and power Cabling organizations
- ac dc Panel Distribution Single Line Diagrams



# Engineering Action Plan

## PES

- Valve Hall Wall Bushings Equipment / GA Drawings
- Issue PLC Specification
- Issuance of updated HVDC documents following workshop of held during week of 15-Jun-2015
- Issue Valve Operational Type Test Report
- Issue Smoothing Reactor general arrangement drawing

## TST

- Converter Transformer Short Circuit Calculations and Tap Changer type test to be issued.
- Transformer General Assembly in rev A2 to be submitted

# Engineering Action Plan

## CWE:

- Continuation of the transmittal of the Civil Works Engineering IFC documentation for Converter Stations:
  - Concrete Foundations
  - Building Steel Structures
  - Architectural details
  - Mechanical , Electrical , Water & Plumbing
- Transmittal of the Civil Works Engineering IFC documentation for the Transition Compounds :
  - Concrete foundation layout Forteau Point
  - Lighting Protection Tower Forteau Point



# Procurement Overview

- Overall cumulative Procurement Progress is 20.3% against a Baseline of 23.9%.

## Services and BOP Procurement (period ending 20-Jun-2015)

- no POs issued.
- 2 RFQs issued for bid request :
  - Rigid bus bars (Bid opening 12-Jun-2015)
  - Battery / Charger 48v & 125v (Bid opening 3-Jun-2015)

## PES & TST Procurement

- No PO placed

## Procurement opportunities or challenges

- None to report.

# Procurement Overview

## Next period overview

- 8 Forecasted RFQs to be issued to Suppliers in July:
  - Diesel Generator
  - Auxiliary Transformers, Auxiliary Services (Panels)
  - DC fuse box, 125Vdc, Diesel generator set,
  - High Speed Switches (AUTO TRANSFER SWITCH)
  - Motor Control Centers 600V
  - Switchgear with automatic transfer, 600V
- 4 POs to be issued to Suppliers in July
  - Flexible and Shielding Cables
  - CVTs (Alstom RMW)
  - Post/String Insulators
  - Waste Management Services
  - Cleaning Services (site trailers and wash carts)



# Construction Overview

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Construction progress is at 0% vs 1.04%.

- Procurement Team awarded the LNTP for Muskrat Falls and Soldiers Pond Converter Stations during the first week of June-2015. This enabled Contractors to prepare for mobilization.
- Civil Works Contractors has prepared the documentation for CW Contractors mobilization(s): Mobilization Plan(s), Construction Plan(s), EHS Plan, Quality Plan(s) and other related construction documentation.
- The Civil Works Contractor Kick-off meeting(s) mid-June 2015

# Construction Overview

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## ACTION PLAN

- The following activities are planned for site mobilization and start of construction:
- Waiting for reviewed Construction Management Plan transmitted for Approval in May 2015.
- Security Services including EH&S to mobilize at Muskrat Falls and Soldiers Pond in June 2015.
- Electrical Power Supply installed in June 2015
- Telecom Services: installation in June 2015
- Site Medical Facilities: Following acceptance of Site(s) Mobilization Plan



# Construction Challenges and Accomplishments

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- Contractor continues to work on Construction documentation to ensure that all building permits are in place and that IFC drawings are issued in due time for the construction to start.
- The permits and the approval of the documents and drawings for construction remain as a top priority for the Contractor. The Permit Register is located in Appendix 8

# Construction Action Plan

- The following activities are planned for site mobilization and start of construction:
- Waiting for reviewed Construction Management Plan transmitted for Approval in May 2015.
- Security Services including EH&S to mobilize at Muskrat Falls and Soldiers Pond in June 2015.
- Electrical Power Supply & Telecom Services installed in June 2015
- Site Medical Facilities: Following acceptance of Site(s) Mobilization Plan

## Commissioning-

details of the roles and responsibilities of the Completion Manager's to be defined



# Planning and Scheduling

- Schedule activities progressed as per Contractor's methodology approved by Company. Activities were updated based on the inputs from PDM for the Engineering, and inputs from the Procurement dashboard for Sourcing.
- Civil Works schedule: Level 4 issued and submitted for comments to works management team. (to provide guidance to the level of details required from the Civil Subcontractor(s))
- Construction schedule: Relative weightage for each package (Civil and ElectroMechanic) proposed to Contractor's Construction Manager for validation. (following requirement from Company to establish performance curve and progress on the overall construction Scope, not only for Civil Works)
- TST Engineering activities are now detailed in the master schedule

# Open Change Requests (CHR)

Change Requests	Last Period	This Period
Open	8	8
Closed	1	0
Cancelled	0	0
<b>Total</b>	9	8
Change Orders	Last Period	This Period
<b>Total</b>	9	10

- CHR-008 - Harmonic Impedance Study.
- CHR-006 – Preparation of alternative layout for both Converters.
- CHR-2003- Exhibit 2 - Section 15 - Arc Flash
- CHR-2004- Exhibit 2 - Section 15 - Wiring Options-
- CHR-2005- Exhibit 2 - Section 15 – Visible Break Requirements
- CHR-009 – Transfer from Company scope of work Sanitary at MF
- CHR-2007 – MF and SP Layouts optimizations



# Invoice Status

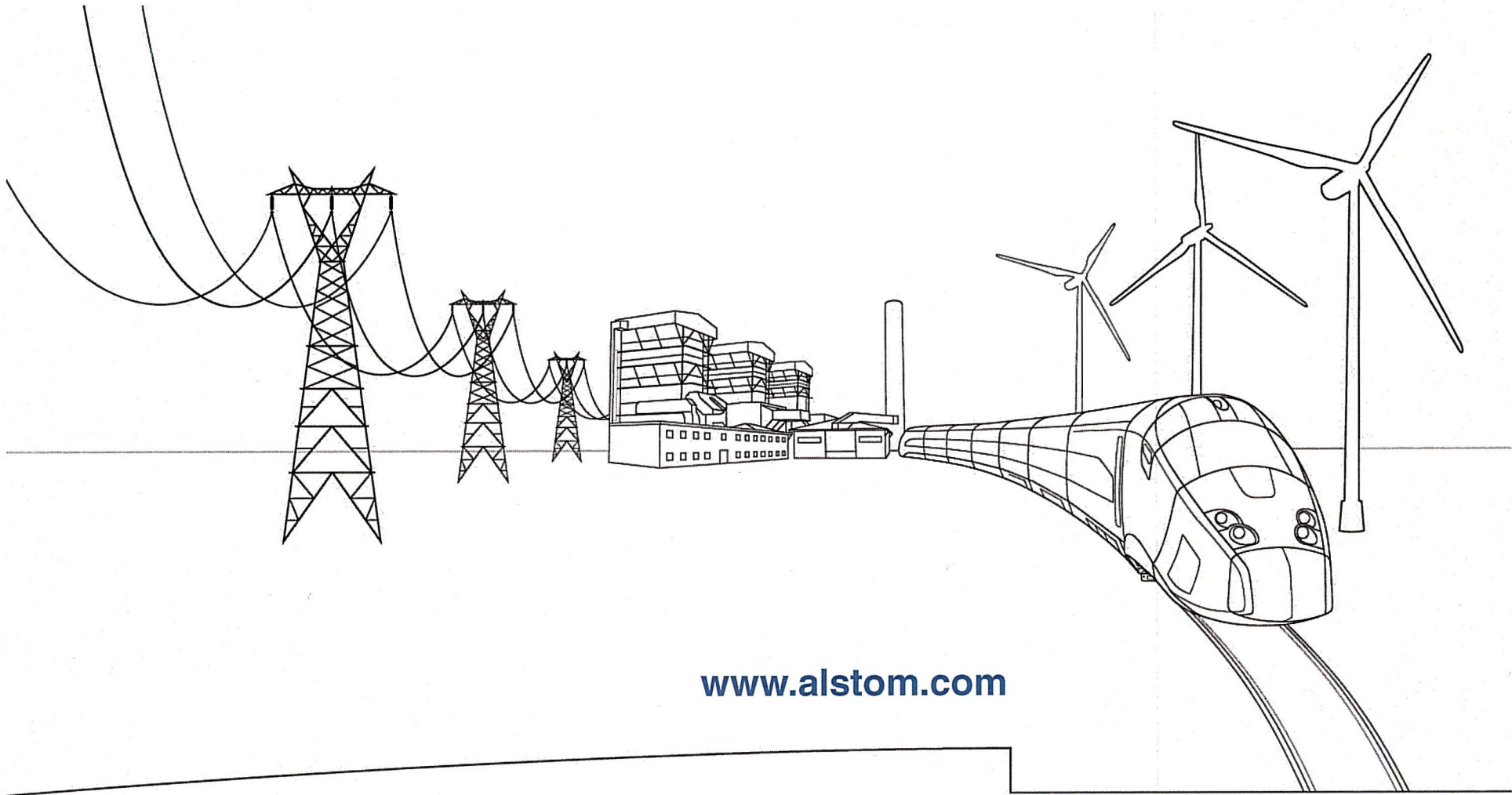
- PCA-CD0501001-0024 (Engineering Studies & detailed, Apr-2015 Monthly Progress Report+ Cost of insurance + PO issuance,) approved by the Company and payment is planned in June 2015
- PCA-CD0501001-0025 (Engineering Studies & detailed, May-2015 Monthly Progress + PO issuance,) is under revision by the Company.

## Period Ending:

25-May-2015	CAD	GBP	EUR	USD
Total invoiced to date*	47,614,794	10,478,662	1,544,374	663,133
Total cash collected to date**	39,840,328	9,595,708	1,478,552	618,286
Incurring cost to date	41,076,917	8,829,537	658,218	448,466

\* Invoiced to date excluding holdback but including advance payment & reimbursement

\*\* Total cash collected including holdback, advance payment & reimbursement



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