From: David Steele
To: Aman Gill

Subject:Preliminary Findings\_v5 - DS.pptxDate:Wednesday, March 19, 2014 1:16:00 PMAttachments:Preliminary Findings\_v5 - DS.pptx

# **Government of Newfoundland and Labrador**

Review of government protocols to oversee the Lower Churchill Project

Presentation of Recommendations
March 2014



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# Engagement schedule update

#### Where we are



Task	s	Wed Mar 12	Thur Mar 13	Fri Mar 14	Mon Mar 17	Tues Mar 18	Wed Mar 19	Thur Mar 20	Fri Mar 21
	Data collection and scheduling interviews								
	Reviewing data and conducting interviews								
	Drafting of preliminary report								
	Meeting with Nalcor								
	Presentation of preliminary findings and collecting feedback								
	Draft and issue report								

### EY's Scope

### EY's scope for this engagement included:

- 1. Identify opportunities to improve and formalize the planned governance structure of the committee
- 2. Conduct a gap assessment of the established Information Request List and recommend additional items that should be added or modified
- 3. Recommend the type and number of resources required by the government to meet it's mandate

# EY's Approach

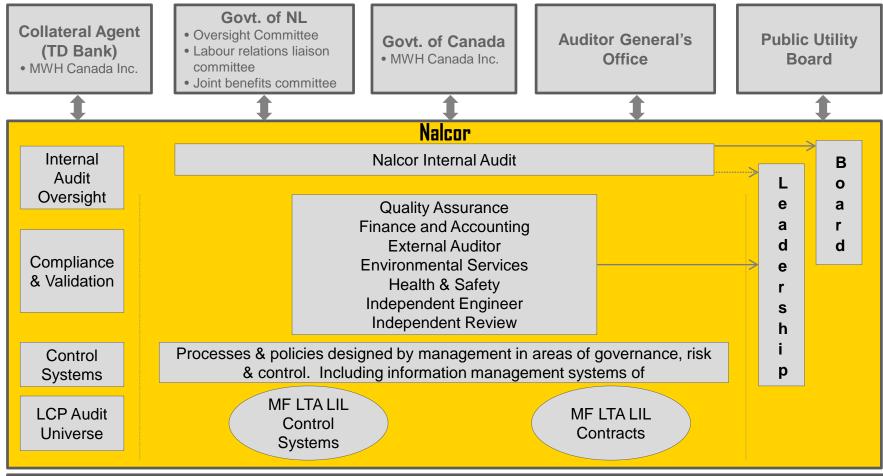
Our recommendations are based on a set of structured interviews and review of documents related to the Lower Churchill project. Key personnel interviewed for this review are listed in the following table.

Name	Title	Department
Julia Mullaley	Clerk of the Executive Council & Secretary to the Cabinet	Executive Council
Tracey King	Assistant Secretary to Cabinet	Executive Council
Charles Bown	Deputy Minister	Natural Resources
Tracy English	Associate Deputy Minister	Natural Resources
Paul Morris	Assistant Deputy Minister	Natural Resources
Randy Pelletier	Solicitor	Justice
Donna Brewer	Deputy Minister	Finance
Peter Au	Assistant Deputy Minister	Finance
Paul Myrden	Director Debt Management Division	Finance
Derrick Sturge	Chief Financial Officer	Nalcor
Jim Meaney	LCP – GM Finance	Nalcor
Robb Hull	GM Finance	Nalcor
Mark Bradbury	Internal Audit	Nalcor

# Recommendations for government oversight protocols



# Representative project reporting/control framework and key oversight considerations



Key oversight considerations for the government of NL:

• Extent of coverage • Level of independence in oversight • Appropriate skill sets for information analysis • Avoiding duplication • Information sharing and communication protocols

# Oversight committee mandate considerations for discussion

#### What we have heard...

### The Government's Oversight Committee has the following objectives:

To establish a reliable and transparent oversight protocol over the Muskrat Falls Hydroelectric Project and to establish an effective communication channel to Cabinet and the general public.

### The Committee's oversight mandate could encompass the following areas:

### A. The project cost and schedule is well managed:

- Have the management process and controls been well designed?
- Is there adequate adherence to the management processes and controls?
- Are contracts being managed diligently?
- Are the financial draws complying with established processes?

### B. The project is meeting the cost and schedule objectives:

- How does schedule performance and forecast compare to the plan?
- How do cost performance and forecast compare with the baseline?
- Are the costs being reasonably incurred?
- Are the cashflow forecasts adequately reflecting the project's funding requirements?

### C. The cost & schedule risks are being reasonably anticipated and managed:

- Are risks being sufficiently identified and addressed?
- Is there adequate contingency in place to address the outstanding project risks?

# **Outline of Government Oversight Committee Structure**

### **Oversight Committee**

### **Committee Members**

Clerk of the Executive Council (Chair)
Deputy Minister of Finance
Assistant Deputy Minister of Finance
Director of Debt Management
Deputy Minister of Natural Resources
Associate Deputy Minister of Natural Resources
Assistant Deputy Minister of Natural Resources
Deputy Minister of Justice (or designate)

### Roles and responsibilities

- 1. Review and approve periodic reports and communications
- 2. Manage escalation of high risks/issues as necessary
- 3. Interact with Nalcor Senior Management
  - a. Communication and resolution of issues
  - b. Provision of input to Nalcor on Government requirements
  - c. Approval of request for release of funding?

### **Working Committee (Group)**

#### **Members**

#### Required skills include:

Project Management & Controls, Engineering Management, Procurement/Contracts Management Construction Management, Internal Audit, Project Governance/Risk Management, Finance, Transactions.

#### Required size:

**TBD** 

### Roles and responsibilities

- 1. Perform the analysis required to develop recommendations for the Oversight Committee leveraging information from Nalcor
- 2. Solicit additional inputs from govt. agencies/assurance providers as required
- 3. Maintain a log for reconciling disbursement of funds with project costs
- 4. Prepare supporting information for funding approval
- 5. Liaise with Nalcor Internal Audit
  - · Review assurance activities
  - Communicate oversight observations, input and recommendations
  - Monitor critical corrective action
- 6. Support communication to cabinet and other stakeholders

# **Working Committee Tasks**

### **Inputs**

#### **Cost Inputs**

- Budgets
- Commitments
- Pending changes
- · Invoiced amounts to date
- Payments to date
- Variance analysis
- Forecasts
- Cost performance index
- Cashflow forecasts vs. actuals
- Contingency draw down log

#### **Schedule Inputs**

- · Planned vs. actual schedule
- Schedule performance index

#### Other inputs

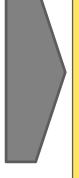
- Risk register
- Lien register
- Change order log
- Contract performance report
- Audit reports

### **Working Committee Tasks**

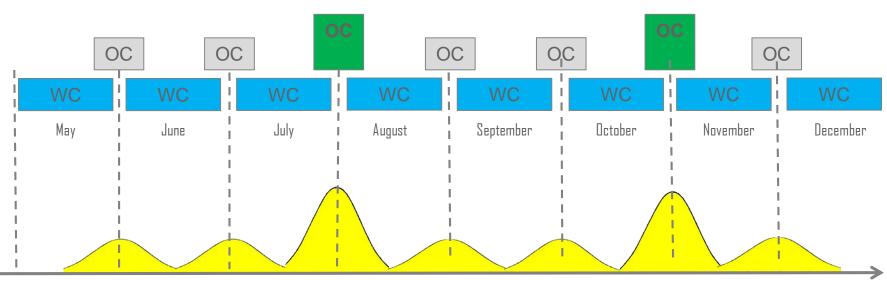
- Examine deviations from planned budget and schedule
- 2. Examine deviations from planned project cashflows
- 3. Verify funding to the project is in accordance with Project Financing Agreement
- Examine contingency draws and potential impacts
- 5. Reconcile disbursement of funds with project costs
- 6. Liaise with govt. agencies, Independent Engineer and Nalcor for additional inputs as required
- 7. Prepare funding approval and oversight observations report
- 8. Communicate oversight observations to Nalcor and follow up to address related issues
- Support communication to cabinet and other stakeholders

### **Outputs**

- Oversight observations
- . Funding disbursement log
- 3. Oversight issues tracker
- 4. Draft cabinet and stakeholder communications (as required)



# Rhythm of reporting and the business



Level of Effort

WC Working Committee day-to-day tasks

OC Monthly Oversight Committee Meetings/ Communications

OC Quarterly Oversight Committee Meetings/ Communications

Oversight and working committee analysis, reporting and communication rhythm should be aligned with the project reporting rhythm





## **Information Request List – Gap assessment**

The current Information Request List identifies some of the key cost and schedule information needs. However, the additional information and metrics described below would improve visibility into project performance, risks and prospects for success.

We would expect that this information is already produced by the Nalcor Project Controls group.

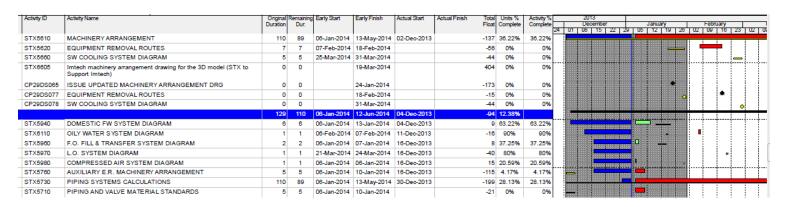
#### 1. Cost information

- Baseline Budget with Basis of Estimate
- b. Cost report showing: Cost Performance Index (CPI), Budget (Baseline, Change Approved, Change Pending, In Period), Actuals (Incurred -In Period, Cumulative), Estimate To Complete (ETC), Estimate at Complete (EAC), Variance – Period and Cumulative
- Contingency draw log, contingency planned vs. consumed (Can also be included in cost report)
- d. S Curve and Performance Graphs showing performance, trend and forecast
- e. Independent Estimate At Complete (IEAC) and To Complete CPI (TCPI)
- f. Contract level cost reporting as above but including: original commitments, approved changes, pending changes, revised commitments, invoiced to date, paid to date, percentage complete and CPI
- g. Rolling cash flow (TBD Period) planned versus actual
- h. Log for tracking funding draws
- i. Analysis and management corrective action (at individual line item level)

## **Information Request List – Gap assessment**

### 2. Schedule information required

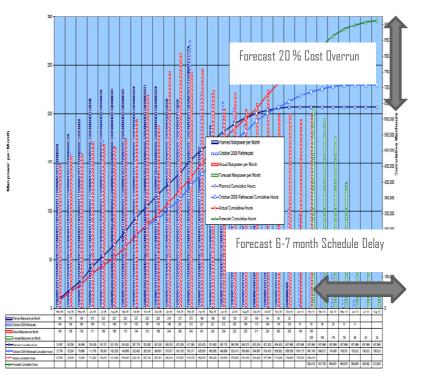
- Schedule Specification, Basis of Schedule, Assumptions and a Predecessor/Successor report
- b. Updated Gantt Chart including with critical path, baseline, float, % complete, actual/forecast start, actual/forecast end date (full requirements in Appendices)
- Schedule milestone report showing Baseline Finish, Actual/Forecast Finish, Schedule Performance Index, Variance
- d. Performance Graph showing performance, trend and forecast
- e. Top 10 Critical Items and Float
- f. Analysis and management corrective action (at individual line item level)



# **Information Request List – Gap assessment**

#### 3. Other information

- a. Standard project monthly status report (including Health & Safety, Environment, Community/Stakeholder, Scope & Change, Cost, Schedule, Quality, Risk and Contract reports)
- Resource profile and graphs/histograms (planned versus actual/forecast)
- c. Project WBS structure and dictionary
- d. Project policies and procedures (PMP, PEP, other processes)
- e. Project execution and contracting strategy
- f. Project risk register
- g. Change order log
- h. Claims log
- i. Liens register
- j. Project assurance plan(s) including internal audit and third party assurance
- a. Assurance scope statements & protocols
- b. Assurance reports



# **Summary Next Steps**

### **Ernst & Young**

- a. Incorporate feedback from today
- b. Build full report
- c. Circulate full report by end of week (Friday)

#### **Government of NL**

- a. Develop the terms of reference
- b. Establish the government working committee/ group
- c. Align Government of NL role with existing project assurance mechanisms/ stakeholders
  - Information requirements (gaps) with Nalcor
  - Nalcor's reporting rhythm, align to avoid duplication/ negative impact to project
  - Formalize agreement with Nalcor (information sharing, communication, etc)



# Sample of cost report formats

### As currently provided

Part I - Hard Costs for the MF Plant

Schedule "A" - Summary of Project Budget - Hard Costs Lower Churchill Project-Phase 1 Muskrat Falls Generation

Period Ending 31-Jan-2014											
<b>发展要性发生的现在分</b> 点	EXCELLENGE CONTRACTOR SUCCESSION	Pl nne	d Costs	Incurred Costs							
Desc lption	Project udget	Current Perj	roject-to-Da e	Current erlod	Project-to-ate						
NE-LCP Owners Team, Admin and EPCM Services	\$378,969	\$4,086	\$184,947	\$5,504	\$194,680						
Feasibility Engineering	\$18,345	\$10	\$17,855		\$17,950						
Environmental & Regulatory Compliance	\$20,312	\$161									
Aboriginal Affairs	\$13,314	\$487	\$4,478	,	\$4,177						
Procurement & Construction	\$2,719,626	\$36,509	\$519,581	\$44,723							
Commercial & Legal	\$20,457	\$2,084	\$14,286								
Contingency	\$94,255		\$0		\$25,020						
Total 😓	\$3,265,278	\$43,337	\$755,601	ATTENDED TO A CONTRACTOR OF THE PARTY OF THE	\$742,208						

Note: Costs in CAD (\$ Thousands)

Analysis:

Total incurred costs to date are slightly lower than planned due to slower than planned ramp up of construction and mobilization associated with CH0007 as well as ramp up of project activities following the Christmas 2013 shutdown.

### Fuller Analysis (with "Areas of Focus" in red)

Description				Performance	Budget				Actuals			Forecaste		Variance			
WBS ID WB Descrip		ontract ID	Contract	Cost Perf Index	Baseline	Change Approved	Change Pending	Period	Period	Cumulative	Commitments	Estimate To Complete	_	Period	Cumulative	To Complete CPI	Independent Est @ Complete

# **Typical Gantt Request Format**

#### Schedule Specs for PDF Version of Project Plans

- Activities broken down by location, major contract and per WBS1
- 1. Following columns with text data:
  - WBS ID
  - Activity ID
  - Activity Name
  - Original Duration
  - Current Duration
  - Early Start
  - Early Finish
  - Actual Start
  - Actual Finish
  - Total Float
  - Physical % Complete(\*)
  - Activity % Complete(\*)
  - CPI and SPI, if available
- (\*) Specify how Earned Value is calculated.
- 1. The following shown on the Gantt bar chart section:
  - Activity duration (showing forecast start and finish)
  - Baseline duration
  - % Complete
  - Current data date
  - Critical Path