

From: jamesmeaney@nalcenergy.com
To: [Derrick Sturge](#); [Auburn Warren](#); [Rob Hull](#)
Subject: Updated Capital Costs - Note to Ed
Date: Friday, November 15, 2013 4:10:43 PM
Attachments: [.png](#)
[.png](#)
[Major Package Status Report - Oct 31, 2013 \(Details\) rev1 .pdf](#)
[Major Package Status Report - Oct 31, 2013 \(Summary\) rev1 .pdf](#)

FYI....the pigskin is in flight....



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You owe it to yourself, and your family, to make it home safely every day. What have you done today so that nobody gets hurt?

----- Forwarded by James Meaney/NLHydro on 11/15/2013 04:09 PM -----

From: Gilbert Bennett/NLHydro
To: Ed Martin/NLHydro@NLHydro
Cc: James Meaney/NLHydro@NLHYDRO, Paul Harrington/NLHydro@NLHydro
Date: 11/15/2013 02:28 PM
Subject: Fw: Major Material Contracts Files

Ed,

We're under some pressure to demonstrate the changes to material contracts as identified by the IE. The attached sheets are intended to show how the growth from 6.202 to 6.531 is occurring.

Before sending them through to the IE, I'd like you to take a look. From my perspective, the numbers summarise the key changes, and I don't see anything here that the IE would not have access to were they in our office.

Call me on my cell if you'd like to discuss.

Gilbert

Gilbert J. Bennett, P. Eng.
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----- Forwarded by Gilbert Bennett/NLHydro on 15/11/2013 02:25 PM -----

From: James Meaney/NLHydro
To: Gilbert Bennett/NLHydro
Date: 15/11/2013 01:22 PM
Subject: Fwd: Major Material Contracts Files

Sent from my iPad

Begin forwarded message:

From: "George Chehab" <GeorgeChehab@lowerchurchillproject.ca>
Date: November 15, 2013 at 1:16:33 PM NST
To: "Jason Kean" <JasonKean@lowerchurchillproject.ca>, "Paul Harrington" <PHarrington@lowerchurchillproject.ca>, "James Meaney" <JamesMeaney@nalcorenergy.com>, "Ed Bush" <EdBush@lowerchurchillproject.ca>, "Lance Clarke" <LanceClarke@lowerchurchillproject.ca>
Subject: Major Material Contracts Files

Please find attached the revised files for the 17 major contracts

cheers

(See attached file: Major Package Status Report - Oct 31, 2013 (Details) rev1 .pdf)(See attached file: Major Package Status Report - Oct 31, 2013 (Summary) rev1 .pdf)

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so that nobody gets hurt?



Major Package Status Report - Oct 31, 2013 (Details) rev1 .pdf



Major Package Status Report - Oct 31, 2013 (Summary) rev1 .pdf

MATERIAL CONTRACTS COST SUMMARY

13-Nov-2013

#	Package #	Package Title	Actual Award Date	Expected Award Date	Procurement Status	Estimated Substantial Completion Date	A DG3 Base Estimate	B DG3 Escalation Allowance	C = A + B Original Control Budget	D Transfer To/From other contracts	E Final Forecast Cost (FFC)	F = E - C - D Variance Due to 1)+2)+3) (see Comments Below)	Transfer Details
1	CH0007	Construction of Intakes & Powerhouse, Spillway and Transition Dams	24-Sep-2013		LNTP Signed	2017	\$ 687,994,112	\$ 63,993,604	\$ 751,987,716	\$ (6,969,480)	\$ 1,117,743,386	\$ 372,725,150	* Transfer of 8,1 M from SH0021 for snow clearing and road maintenance * Transfer of 6,1 M from CH0009 for south transition dam structure * Transfer of 9,8 M to CH0032 for secondary concrete of intake and PH * Transfer of 9,2 M to CH0009 for cofferdams scope transfer * Transfer of 10,1 M from CH0031 for electro-mechanical embedments * Transfer of 12,2 M to SM0709 for air transportation
2	CD0501	Supply and Install of Converters and Cable Transition Compounds		20-Dec-2013	Bids in - Evaluation Continues	Q2 2017	\$ 401,654,399						* Transfer of from CD502 for per diem * Transfer of to CD0503 for 30,000 M3 of granular fill 300mm * Transfer of from CD502 for ac breakers for MF and SP * Transfer of to SM0709 for Air transportation * Transfer of from CD502 for the supply of ac breakers for MF and SP * Transfer of from SM0705 for Lab services of the LTA and LITL
3	CT0327	Construction of 350 kV HVdc Transmission Line - Section 1 (MF to SOBI to Deer Lake 610 km)		Q2 2014	RFP being developed (with CT0346 scope included)	Q1 2017	\$ 358,988,474	\$ 33,741,052	\$ 392,729,526	\$ 90,297,291	\$ 492,176,817	\$ 9,150,000	* Transfer of 97 M for merging CT0343 to CT0327 * Transfer of 3,6 M to CT0354/CT0355 for Marshalling yard * Transfer of 4.4 M to SM0709 for Air transportation * Transfer of 1.4 M from SM0705 for Lab services of LITL
4	CT0319	Construction of 315 kV Hvac Transmission Line (MF to CF)		Q4 2013	Bids in - Evaluation Continues	Q3 2016	\$ 188,116,443	\$ 16,311,459	\$ 204,427,902	\$ (1,440,850)	\$ 259,084,236	\$ 56,097,184	* Transfer of 2,5 M to CT0354 for Marshalling yard * Transfer of 1.05 M from SM0705 for Lab services of LTA
5	CT0346	Construction of 350 kV HVdc Transmission Line - Section 2 (Central & Eastern NL 470 km)		Q2 2014	RFP being developed (with CT0346 scope included)	Q1 2017	\$ 167,647,168	\$ 19,767,223	\$ 187,414,391	\$ (3,284,413)	\$ 185,579,978	\$ 1,450,000	* Transfer of 2 M to CT0355 for Marshalling yard * Transfer of 2.36 M to SM0709 for Air transportation * Transfer of 1.05 M from SM0705 for Lab services of LITL
6	CH0030	Supply and Install Turbines and Generators	02-Jan-2013		Contract Awarded	2017	\$ 200,000,000						
7	CD0502	Construction of AC Substations and synchronous condensers facilities		31-Mar-2014	RFP closes Nov 27	Q3 2016	\$ 141,056,231						* Transfer of from SM0705 for Lab services of LTA and LITL * Transfer of to CD534 for SyC civil and Mech. Works * Transfer of to CD501/CD503/CD0534 for per diem * Transfer of to CD0503 for 78,000 M3 of granular fill 300mm * Transfer of from PD0537 for dry type tranfos * Transfer to merge PD0505 to CD0502 as EPC contract * Transfer of to CD501 for ac breakers for MF and SP * Transfer of to CD0534 for installing the auto transformers * Transfer of to SM0709 for Air transportation * Transfer for the SST scope from PD0537
8	CH0024-001	Construction of Reservoir Clearing - North Bank	25-Apr-2013		Contract Awarded	Q4 2016	\$ 54,045,313	\$ 3,265,312	\$ 57,310,625	\$ 90,551,215	\$ 131,170,400	\$ (16,691,440)	* Transfer of 90,5 M from CH0023 for merging the 2 packages
9	CH0009	Construction of North and South Dams			Exercising options with CH0007 for completion of scope	Q4 2017	\$ 117,166,506						* Transfer of from CH0006 for Spillway D/S cofferdam removal * Transfer of to CH0007 for south transition dam structure * Transfer of from CH0007 for cofferdams scope transfer * Transfer of to SM0709 for air transportation
10	SH0018	Provision of Catering, Housekeeping & Janitorial Services (MF)		29-Nov-2013	Bids in - Evaluation Continues	Q4 2017	\$ 114,800,000	\$ 7,908,010	\$ 122,708,010	\$ (11,932,067)	\$ 136,800,943	\$ 26,025,000	* Transfer of 0,6 M to SM0714 for early works accommodations * Transfer of 11,3 M to SH0054 for temporary site services at MF
11	CH0006-001	Construction of Bulk Excavation Works	06-Nov-2012		Contract Awarded	Q4 2013	\$ 135,471,949	\$ 4,410,934	\$ 139,882,883	\$ 2,880,997	\$ 147,239,655	\$ 4,475,775	* Transfer of 0,6 M for Spillway D/S cofferdam removal to CH0009 * Transfer of 0,8 M for one year of snow clearing from SH0021 * Transfer of 2,4 M for one year of ground transportation from SH0041 * Transfer of 0,3 M as accommodation costs to CH0006
12	CH0002-001	Supply and Install Accommodations Complex Buildings	22-Oct-2012		Contract Awarded	Q1 2014	\$ 65,267,191	\$ 1,628,207	\$ 66,895,398	\$ 15,537,176	\$ 151,826,189	\$ 69,393,615	* Transfer of 1 M for the clinic building to CH0003 * Transfer of 0,3 M as accommodation costs to CH0006 * Transfer of 16,5 M of the utilities budget CH0005
13	CH0032	Supply and Install of Powerhouse Hydro-Mechanical Equipment	31-Oct-2013		LNTP Signed	Q1 2018	\$ 101,525,168						* Transfer of from CH0031 for electrical and mechanical aux works * Transfer of to merge CH0046 with CH0032 * Transfer of to CH0032 for secondary concrete of intake and PH * Transfer of M to SM0709 for air transportation
14	LC-SB-003	Submarine Cable Design, Supply and Install	29-Nov-2012		Contract Awarded	Q3 2016	\$ 141,000,000	\$ 6,089,747	\$ 147,089,747		\$ 147,089,747	\$ -	
15	SM0714	Engineering, Procurement and Construction Management (EPCM) Services	01-Feb-2011		Contract Awarded	N/A	\$ 352,005,457	\$ 18,939,735	\$ 370,945,192	\$ 1,600,000	\$ 359,318,706	\$ (13,226,486)	* Transfer of 1 M from SM0710 to S/I IT equipment * Transfer of 0,6 M from SH0018 for early works accommodations
16	PH0014	Supply of Generator Step-up Transformers		29-Nov-2013	Bids in - Evaluation Continues	Q4 2016	\$ 19,464,469	\$ 1,084,547	\$ 20,549,016		\$ 20,547,836	\$ (1,180)	
17	PH0016	Supply of Generator Circuit Breakers		27-Nov-2013	Bids in - Evaluation Continues	Q1 2017	\$ 5,056,000	\$ 114,372	\$ 5,170,372	\$ (125,000)	\$ 5,045,372	\$ -	* Transfer of 0,1 M to PH0015 for the generator surge capacitor
		BALANCE OF SCOPE					\$ 2,241,527,820	\$ 101,749,985	\$ 2,343,277,805	\$ (304,774,737)	\$ 2,044,746,880	\$ 6,243,812	
		CONTINGENCY					\$ 367,852,397		\$ 367,852,397		\$ 89,494,034	\$ (278,358,363)	

TOTAL

\$ 5,860,639,097 \$ 341,853,448 \$ 6,202,492,545 \$ - \$ 6,531,754,580 \$ 329,262,035

COMMENTS: With Reference to "Project Update" Deck Provided on 6-Nov-2013

- 1) Market Conditions
- 2) Construction Productivity Enhancement Mesures
- 3) Design Enhancements to Improve Reliability

Transfers are included in the FFC value but have no impact on the Variance, hence they are excluded in its calculation

LCP DG3 Estimate vs. Current Final Forecast Cost Reconciliation**13-Nov-2013**

	<u>DG3 - OCB</u>	<u>Current FFC</u>
Historical Cost (Pre-May 2012)	\$ 186,806,422	\$ 186,806,422
Material Contracts (1)	\$ 3,491,362,343	\$ 4,397,513,666
Project Management	\$ 235,998,337	\$ 245,998,337
Environmental	\$ 26,839,853	\$ 27,014,853
Balance of Scope	\$ 1,893,630,314	\$ 1,584,927,268
Contingency	<u>\$ 367,852,397</u>	<u>\$ 89,494,034</u>
	\$ 6,202,489,666	\$ 6,531,754,580

(1) See Attached for Details on 17 Material Contracts

(2) Includes Escalation

(3) The Final Forecasted Cost includes the cost impact of executed LNTP's, Contracts and PO costs