From: jamesmeaney@nalcorenergy.com
Sent: Saturday, November 9, 2013 11:50 AM

To: Home

Subject: Fw: VAriance Explanation for Feds

Attachments: Major Package Status Report - Oct 31, 2013 Costed rev GC.xlsx; Approval form.xlsx;

cost flow october for cash flow purpose.XLS

Sent from my BlackBerry 10 smartphone.

From: James Meaney

Sent: Friday, November 8, 2013 10:56 PM

To: George Chehab

Cc: Ed Bush; Jason Kean; Lance Clarke; Paul Harrington

Subject: Re: VAriance Explanation for Feds

Hi George

Thanks again for all your assistance today in pulling together the major contracts summary for the Feds.

I've been giving some more thought to the monthly cost flow series that Auburn's team should be using in the financial models, as this will also be presented to the Feds and their advisors this upcoming week. It really needs to be the same cost flow series that underpins the approved \$6,531m FFC and reconciles to the major contracts summary. As I understood it, I think the \$6,508m was a forecast with a cutoff at a slightly different point in time?

Is the monthly cost flow series that underpins the \$6,531m something that's already available? If not, when is the earliest this could be provided?

Paul, depending on timing, it's quite possible this figure might become the official "Project Budget" in the schedule to the Project Financing Agreements that will also serve as the baseline in the Construction Report going forward. Similarly, this latest run of the financial models may also end up being the "model of record" for financial close. So in that light, critical that we have consistency in what's being used for the latest view of capital costs.

If you have any questions or want to discuss further please feel free to give me a call over the weekend on my cell at 727-5283.

Thanks

Jim

(See attached file: Approval form.xlsx) (See attached file: cost flow october for cash flow purpose.XLS)

George Chehab

Lead Cost Controller

PROJECT DELIVERY TEAM

Lower Churchill Project

- t. 709-752-3461 x55147
- e. GeorgeChehab@lowerchurchillproject.ca
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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?



James Meaney, CFA

General Manager Finance

Nalcor Energy - Lower Churchill Proje

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George Chehab---11/08/2013 04:18:47 PM---Jason i was preparing with Paul, Lance, James a file to explain the variances for the 17 major packa

From: George Chehab/LCP/NLHydro

To: Jason Kean/NLHydro@NLHydro

Cc: Lance Clarke/NLHydro@NLHydro, Paul Harrington/NLHydro@NLHydro, James

Meaney/NLHydro@NLHYDRO, Ed Bush/NLHydro@NLHYDRO

Date: 11/08/2013 04:18 PM

Subject: VAriance Explanation for Feds

Jason

i was preparing with Paul, Lance, James a file to explain the variances for the 17 major packages based on the 6,531 B Forecast

the file shows the major 17 contracts and a line the balance of scope

it aligns with the Approval form Paul signed today (end of September) and the 3 variance categories (market, Construction, Reliability) i provided you

let me know if you have questions
cheers
(See attached file: Major Package Status Report - Oct 31, 2013 Costed rev GC.xlsx)
George Chehab
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PROJECT DELIVERY TEAM
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							A	В	C = A + B	D	E	F	G	H Design	I=F	F+G+H
Package #	Package Title	Actual Award Date	Expected Award Date	Procurement Status	Est. Substantially Completion Date	DG3 B		DG3 Escalation Allowance	Original Control Budget	Final Forecast Cost (FFC)	Transfer from other contracts	Market Conditions	Construction Productivity Enhancement Mesures		Actual	l Variance
CH0007	Construction of Intakes & Powerhouse, Spillway and Transition Dams	24-Sep-2013		LNTP Signed	2017	\$	687,994,112 \$	63,993,604	\$ 751,987,716	\$ 1,117,743,386	\$ (6,969,480)	\$ 82,502,364	\$ 240,055,286	\$ 50,167,500	\$	372,725,150
CD0501	Supply and Install of Converters and Cable Transition Compounds		20-Dec-2013	Bids in - Evaluation Continues	Q2 2017	\$	401,654,399									
СТОЗ27	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	s	358,988,474 \$	33,741,052	\$ 392,729,526	\$ 492,176,817	\$ 90,297,291			\$ 9,150,000	\$	9,150,000
СТОЗ19	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	\$ 259,084,236	\$ (1,440,850)	\$ 24,252,592	\$ 6,000,000	\$ 25,844,592	\$	56,097,184
СТ0346	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	\$ 185,579,978	\$ (3,284,413)			\$ 1,450,000	\$	1,450,000
CH0030	Supply and Install Turbines and Generators	02-Jan-2013		Contract Awarded	2017	\$	200,000,000									
CD0502	Construction of AC Substations and synchronous condensers facilities		31-Mar-2014	RFP closes Nov 27	Q3 2016	\$	141,056,231									
CH0024-001	Construction of Reservoir Clearing - North Bank	25-Apr-2013		Contract Awarded	Q4 2016	\$	54,045,313 \$	3,265,312	\$ 57,310,625	\$ 131,170,400	\$ 90,551,215	\$ (16,691,440)			\$	(16,691,440)
СН0009	Construction of North and South Dams			Exercising options with CH0007 for completion of scope	Q4 2017	\$	117,166,506									
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	\$ 136,800,943	\$ (11,932,067)		\$ 26,025,000		\$	26,025,000
CH0006-001	Construction of Bulk Excavation Works	06-Nov-2012		Contract Awarded	Q4 2013	\$	135,471,949 \$	4,410,934	\$ 139,882,883	\$ 147,239,655	\$ 2,880,997	\$ (12,626,455)	\$ 15,437,534	\$ 1,664,696	\$	4,475,775
CH0002-001	Supply and Install Accommodations Complex Buildings	22-Oct-2012		Contract Awarded	Q1 2014	\$	65,267,191 \$	1,628,207	\$ 66,895,398	\$ 151,826,189	\$ 15,537,176	\$ 67,417,426	\$ 1,976,189		\$	69,393,615

		Actual Award	Expected		Est. Substantially		A	B DG3 Escalation	C = A + B Original Control	D Final Forecast Cost	E	F	G Construction Productivity	H Design Enhancements to	I=F+G+H
Package #	Package Title	Date	Award Date	Procurement Status	Completion Date	DG3 Ba	ase Estimate	Allowance	Budget	(FFC)	contracts	Market Conditions	Enhancement Mesures		Actual Variance
CH0032	Supply and Install of Powerhouse Hydro-Mechanical Equipment	31-Oct-2013		LNTP Signed	Q1 2018	\$	101,525,168								
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					\$ -
SM0714	Engineering, Procurement and Construction Management (EPCM) Services	01-Feb-2011		Contract Awarded	N/A	\$	352,005,457	\$ 18,939,735	\$ 370,945,192	\$ 359,318,706	\$ 1,600,000		\$ (13,226,486)		\$ (13,226,486
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)			\$ (1,180)
PH0016	Supply of Generator Circuit Breakers		27-Nov-2013	Bids in - Evaluation Continues	Q1 2017	\$	5,056,000	\$ 114,372	\$ 5,170,372	\$ 5,045,372	\$ (125,000)				\$ -
	BALANCE OF SCOPE					\$ 2	2,241,527,820	\$ 101,749,985	\$ 2,343,277,805	\$ 2,044,746,880	\$ (304,774,737)	\$ (39,754,698)	\$ 55,370,004	\$ (9,371,493)	\$ 6,243,813
L	1				I	1	Į.								
	CONTINGENCY					\$	367,852,397		\$ 367,852,397	\$ 89,494,034					\$ (278,358,363

\$ 5,860,639,097 \$ 341,853,448 \$ 6,202,492,545 \$ 6,531,754,580 \$ - \$ 142,702,133 \$ 399,933,692 \$ 64,984,573 \$ 329,262,035



MONTHLY FORECAST APPROVAL FORM

Period Ending: 30 September 2013

Currency: \$ CAD

Base Estimate + Escalation	Α	5,834,640,148
Contingency	В	367,852,397
Original Control Budget (OCB)	C = A+B	6,202,492,545
Approved Scope changes (PCNs)	D	210,769,975
Current Control Budget (Excluding Contingency)	E = A+D	6,045,410,123
Remaining Contingency (LITL)	F	89,494,034
Value of Approved Trends in FFC	G	351,322,554
Potential Exposure (Trends Under Study)	Н	45,527,869
Final Forecast Cost (FFC)	I= E+F+G+H	6,531,754,580
FFC - OCB	I - C	329,262,035

Note: the Final Forecasted Cost includes the cost impact of executed LNTP's, Contracts and PO costs

Prepared by:	Name	Signature	Date
Lead Cost Controller	George Chehab		
Reviewed and Approved by:			
Project Control Manager	Ed Bush		
Deputy General Project Manager	Jason Kean		
General Project Manager	Ron Power		
Project Director	Paul Harrington		



