From: jasonkean@nalcorenergy.com

To: <u>Jack Evans</u>

Cc: <u>Eric Briel; Keith Dodson</u>
Subject: Re: Updated Risk Report

Date: Tuesday, September 18, 2012 5:18:49 PM

Attachments: \_\_png

Nalcor Mgt Reserve Lender"s Owner"s Contingency Report V 7 Sept2012 - JK Comments.pptx

Jack,

I have reviewed and input a few words - primarily the re-introduction of "strategic risk" to link back to the Westney risk taxonomy. Is this suitable?

See the attached for my suggested edits - noted in red font.

Also, perhaps I am missing something, but I can't seem to make sense of the all-in cost - tactical and strategic risk exposure do not appear to add in support of P25/P75. Is this a modelling issue? If so, we must explain.



Nalcor Mgt Reserve Lender's Owner's Contingency Report V\_7 Sept2012 - JK Comments.pptx

Jason



Jason R. Kean, P. Eng., MBA, PMP
Deputy Project Manager,
Muskrat Falls & Labrador Island Transmission Link
(Consultant to Nalcor Energy)
Nalcor Energy - Lower
Churchill Project
t. 709 737-1321 c. 709 7279129 f. 709 737-1985

JasonKean@nalcorenergy.com w. nalcorenergy.com 1.888.576.5454

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?

Jack Evans ---09/18/2012 04:29:12 PM---Jason, Attached is the updated final report. The wording has been adjusted to be consistent througho

From: Jack Evans <j\_evans@westney.com>

To: "JasonKean@nalcorenergy.com" < JasonKean@nalcorenergy.com>

Cc: Keith Dodson <k\_dodson@westney.com>, Eric Briel <e\_briel@westney.com>

Date: 09/18/2012 04:29 PM

Subject: Updated Risk Report
Jason,
Attached is the updated final report. The wording has been adjusted to be consistent throughout the report Please call if you would like to discuss.
Thank you,
Jack
Jack Evans
Westney Consulting Group
(713) 861-0800

[attachment "Nalcor Mgt Reserve Lender's Owner's Contingency Report V\_7 Sept2012.pptx" deleted by Jason

Kean/NLHydro]





### **Nalcor Energy**

Analysis of Potential
Management Reserve and
Lender's Owner's Contingency
for the
Lower Churchill Project

May 25, 2012

 Scope / Definition, Estimate and Contingency • The scope of the project used for estimating represents design development and information availability consistent with the requirements of a project sanction estimate. The estimating process, quantification, productivity and price development are also project sanction consistent. The calculated estimating contingency of 6.7 % is appropriate for the estimating information. The estimate is achievable if the project can be executed according to plan

Schedule Risk Exposure

• There is potential time or schedule risk exposure beyond the plan, due to the weather and the volume of work in the powerhouse. The current schedule assumes aggressive performance in powerhouse concrete, and a few sections of the transmission line are challenging.

• Performance Risk Exposure

 The performance rates, estimating norms, or productivity used in the estimate including contingency are significantly better than the worst cases currently being experienced in Canada; some of which are in Newfoundland / Labrador. Experienced front-line supervision, a key to performance, is now a world market and will likely experience high demand during this project. Skilled Labour Availability
 Risk Exposure

• The current estimate is based on labour rates agreed for the Hebron project. It is likely this project will compete with Western Canada for labour. The proposed wage rates are lower, but have larger union benefits than Western Canada resulting in lower take-home compensation. In addition, completion bonuses are being planned in Western Canada.

The Lower Churchill Project, if sanctioned late Q3 2012, should be slightly ahead of a planned high volume construction activity in Canada / North America. It is also primarily a construction project with minimal engineering and procurement required prior to effective start. A timely start and quick work ramp-up could mitigate risk exposure.

The sheer size of the project and volume of work are in and of themselves a strategic risk exposure with respect to the availability of the skills required.

The current schedule is aggressive, given the northern location and the sustained concrete placement production rates required.

Construction productivity has been on a steady decline for twenty-five years. A key element of this is the availability of front line supervision. This project likely has significant performance risk exposure. On the positive side, there has been significant effort to secure a Project Labor Agreement (PLA) that will minimize exposure to labor excesses. While negotiation is not complete, positive concepts like "work teams" have been accepted.

### Potential Strategic Risk Exposure and Risk Adjusted Capital Costs (2012 \$

Canadian)

Expected Cost ex Strategic Risk Exposure \$5,840 MM

**Estimate** \$5,472 MM **Estimating Contingency** \$368 MM **Expected** \$5,840 MM

Align #'s with Tactical results

Strategic Risk Exposure	(Mean Impacts of
	Completion Risks)

**Potential** Impact (Millions)

≈ Potential Schedule Risk - Time Extension \$184

≈ Potential Performance Risk - Productivity \$161

≈ Potential Skilled Labour - Completion Bonus \$82

≈ Potential Skilled Labour – Wage Rate \$70

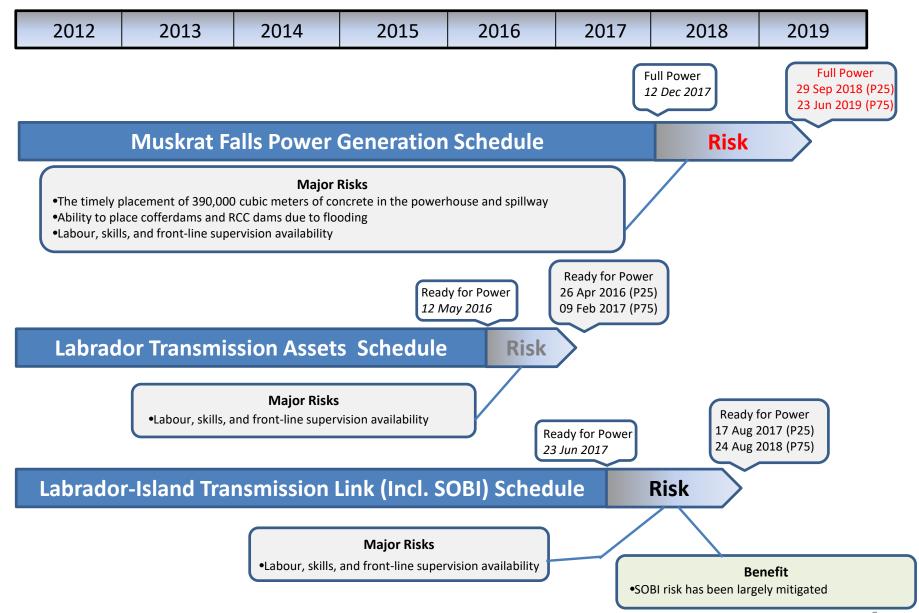
> Total of Mean Values: \$497

> > P25 = 5840 + 330 = 6170M?

Risk Exposure Adjusted Capital Cost From Monte Carlo Simulation



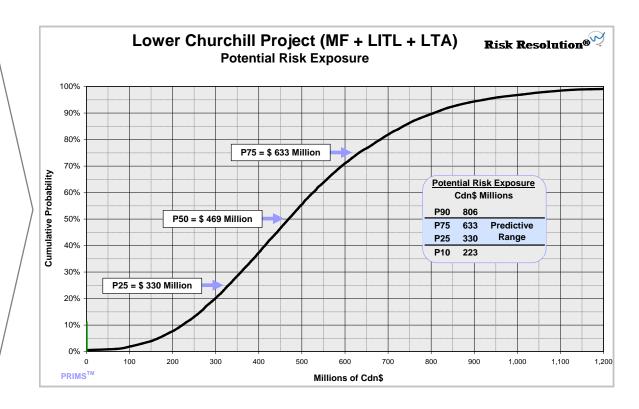
(P25 to P75) = \$5,946 MM - \$6,737 MM



### Supporting Materials

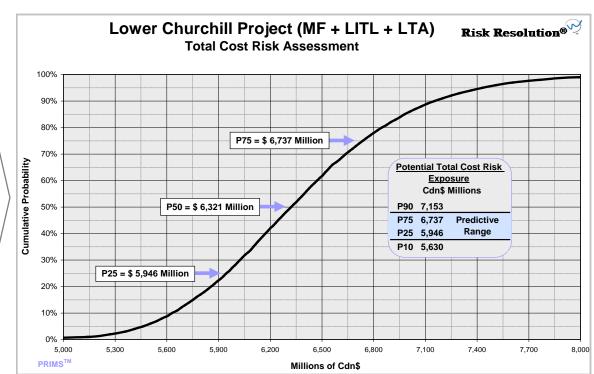
The Predictive Range (P25 – P75) for the potential Strategic Risk Exposure beyond the Estimate Contingency is \$330 MM - \$633 MM. These results are mostly influenced by:

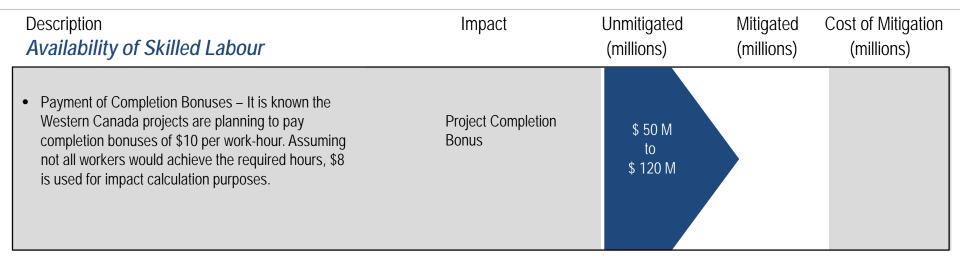
- Schedule Risk Time Extension
- Performance Risk Productivity



The Predictive Range (P25 – P75) of the Total Cost Risk Assessment for the Lower Churchill Project is \$5,946 MM - \$6,737 MM. These results reflect the full impact of both the Tactical Risk Assessment and the potential Strategic Risk Exposure.

We may need to explain why the #'s don't appear to Reconcile back to the Tactical Risk exposure.





 Wage Rate – The Hebron wage rates used in the estimate are roughly \$5 per hour to the person less than the Western Canada rates. The mining projects in the west of the province are currently paying Alberta rates.

Pay Alberta / BC wage rates

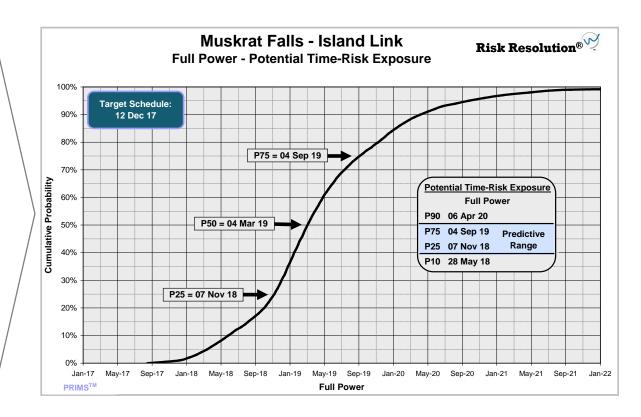
\$ 0 M to \$ 150 M

Description Performance	Impact	Unmitigated (millions)	Mitigated (millions)	Cost of Mitigation (millions)
<ul> <li>Productivity – The Long Harbour and western Province projects are experiencing poor productivity and some jurisdictional problems. The weather is problematic at this site, compounding the productivity issue.</li> </ul>	More work-hours than estimated required to complete the work	\$ 0 M to \$ 350 M		

Description Schedule / Time Risk	Impact	Unmitigated (millions)	Mitigated (millions)	Cost of Mitigation (millions)
Schedule Extension – If weather, logistics, and / or productivity reduce the production rates required to meet the current schedule, a time extension will be the most economical solution to the issue due to the labour concerns in recovery or acceleration scenarios.	Time Extension	\$ 0 M to \$ 400 M		

Results are largely driven by timing of Muskrat Falls Generation Facility. Major risks for facility are:

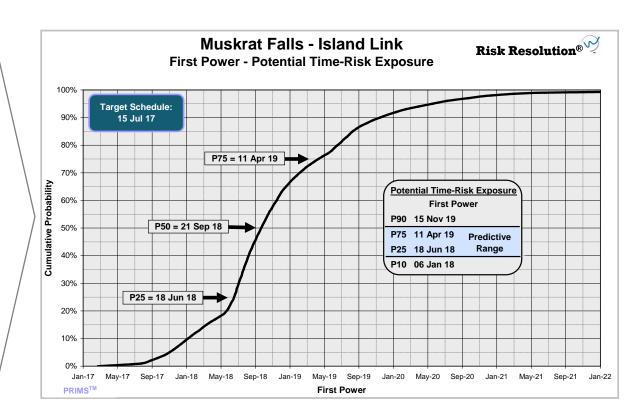
- timely placement of concrete in powerhouse
- ability to place cofferdams and RCC dams while avoiding flooding
- availability of labour, skills, and front-line supervision
- weather windows



Results are still largely driven by timing of Muskrat Falls Generation Facility.

Major risks for facility are:

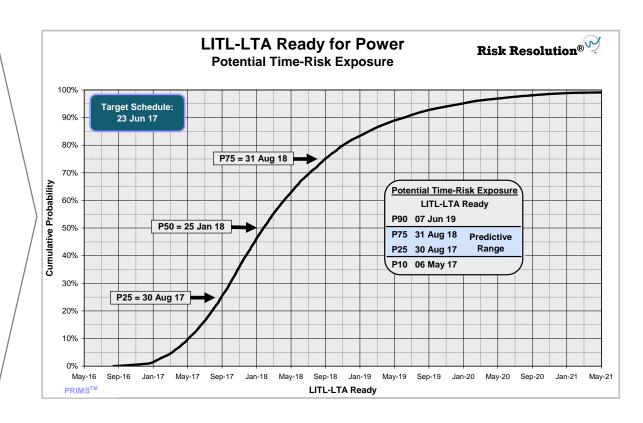
- timely placement of concrete in powerhouse
- ability to place cofferdams and RCC dams while avoiding flooding
- availability of labour, skills, and front-line supervision
- weather windows



Results are driven by timing of Labrador – Island Transmission Link (including SOBI Crossing). Major risks for transmission capability are:

- availability of labour, skills, and front-line supervision
- weather windows

Note: Key risks associated with SOBI Crossing have been largely mitigated.



ID	Name	Duration	Start	Finish	201	12	2013	2	014	2015	2016	3 2	017	201
										H1 H2				
0	Nalcor Energy - Lower Churchill Project - May 2012	2039 d	05/14/12	12/12/17										*
1	Management	131 d	05/14/12	09/21/12	٦.									
2	Project Sanction	131 d	05/14/12	09/21/12					$\neg$					
3	Muskrat Falls	2039 d	05/14/12	12/12/17	<b></b>			-				-	_	Ų.
4	Southside Access Road (to PH)	142 d	06/01/12	10/20/12	1 г			٦ i						
5	Contract Award for Accomodations Complex	58 d	05/14/12	07/10/12		<b>6</b>								
6	Manufacturing/Delivery Starter Accomodations	47 d	07/11/12	08/26/12		H								
7	FE Analysis & PH Reinforcing Design (Prelim)	80 d	05/14/12	08/01/12	1									
8	Contracting for Main Civil (CH0007) - from RFI	313 d	08/02/12	06/10/13	11			$\mathbf{H}$						
9	Selection of Preferred TG Bidder (CH0030)	94 d	05/14/12	08/15/12	1	₩			$\dashv$					
10	Update CATIA & FE Analysis, Complete Reinforcing Design	180 d	08/16/12	02/11/13	11									
11	Accomodations & Utilities - Starter Camp (150 Person)	110 d	08/30/12	12/17/12	7 L	¥	-	H						
12	Award Contract for Bulk Excavation (CH006)	131 d	05/14/12	09/21/12										
13	T/Gs - Design & Fabrication	600 d	10/14/12	06/05/14		Ĭ								
14	Construction Power (Post Road Construction)	35 d	10/21/12	11/24/12		Ì	1	$\mathbf{H}$	Ш					
15	Bulk Excavation - Powerhouse & Related Structures	385 d	11/20/12	12/09/13					Ш					
16	Bulk Excavation - Spillway & Prep Foundation for Riverside Cofferdam	299 d	11/20/12	09/14/13				Ы	Ш					
17	Accomodations & Utilities (Manuf/Del/Inst/comm) - Ph 2 (Complete)	250 d	12/18/12	08/24/13				Ш	Ш					
18	Riverside (RCC) Cofferdam to El 16m (Seasonal)	30 d	09/15/13	10/14/13				H	Ш					
19	Spillway Structure/concreting	330 d	09/15/13	08/10/14										
20	North Spur (Pre-Headpond)	550 d	10/24/13	04/26/15										
21	Concreting & Embedments - Service Bay & Unit 1	900 d	12/10/13	05/27/16										
22	T/Gs - Manufacturing & Delivery - Unit 1	480 d	06/06/14	09/28/15										
23	Spillway Hydromechanical	315 d	08/11/14	06/21/15										
24	North Spur (Completion)	120 d	04/27/15	08/24/15										
25	Start of Upstream Main Cofferdam (Seasonal)	1 d	07/01/15	07/01/15						1 1				
26	Upstream Main Cofferdam (Seasonal)	150 d	07/02/15	11/28/15										

ID	Name	Duration	Start	Finish	20	112	Ţ	2013	2014	1	2015	2016		2017		201	
											H1 H2						
27	North RCC Damic/wiCVC Face	480 d	11/29/15	03/22/17	<u> </u>		_				•		-	▼			
28	Foundation Prep & Mud Slab	210 d	11/29/15	06/25/16													
29	RCC Placement (Seasonal)	120 d	06/26/16	10/23/16									ь				
30	CVC Cap and Downstream Face	150 d	10/24/16	03/22/17									Ĭ				
31	Powerhouse Superstructure (For crane)	180 d	11/30/15	05/27/16													
32	Units 2-4 (Remainder of Primary & secondary Concrete + unit assembly)	360 d	05/28/16	05/22/17													
33	Main Powerhouse Crane Installation - Unit 1	50 d	05/28/16	07/16/16								Ĭ					
34	Pit Free Unit 1	0 d	05/27/16	05/27/16								•	05/	27			
35	Install Spillway Bay - Rollways #1 & 2 (Seasonal)	105 d	07/01/16	10/13/16									h				
36	Turbine & Generator Assembly - Unit 1	210 d	07/17/16	02/11/17										Ы			
37	Ready to Turn - Unit 1	0 d	02/11/17	02/11/17									L	0	2/11		
38	Install Spillway Bay - Rollways #3, 4 & 5 (Seasonal)	125 d	10/14/16	09/30/17									Ť				
39	Impound Reservoir	16 d	05/01/17	05/16/17										-1			
40	Wet Testing - Unit 1	60 d	05/17/17	07/15/17											ı		
41	Ready for Commerical Power - Unit 1 (First Power)	0 d	07/15/17	07/15/17										1	0	7/15	
42	Wet Testing & Commissioning - Units 2-4	150 d	07/16/17	12/12/17												L	
43	Ready for Commerical Power - Units 2-4 (Full Power)	0 d	12/12/17	12/12/17											•	12	/12
44	Labrador Transmission Assets	1460 d	05/14/12	05/12/16	۱ [	•	-										
45	Design of Hvac Switchyards (to RFI)	140 d	05/14/12	09/30/12			H	7									
46	Hvac Overland Constr. Labrador Seg 1 + Seg 2 (incl. clearing & infra.)	1000 d	09/24/12	06/20/15													
47	Procurement Process to Contract Award - Switchyard Components	360 d	10/01/12	09/25/13			Ď										
48	Earthworks at MF & CF Switchyards	240 d	04/08/13	12/03/13					<del> </del>	┑							
49	Vendor Design, Fabrication & Delivery - Transformer	540 d	09/26/13	03/19/15													
50	Vendor Design, Fabrication & Delivery - Switchgear, etc	360 d	09/26/13	09/20/14													
51	Hvac Switchyard - Muskrat Falls	600 d	09/21/14	05/12/16								ъ					
52	Hvac Switchyard - Churchill Falls	600 d	09/21/14	05/12/16						4							
53	LTA Ready for Power transmission	0 d	05/12/16	05/12/16								<b>*</b>	05/1	12			

ID	Name	Duration	Start	Finish	2012	12	2013	201	4	2015	2016	20	017	2018	$\neg$
											H1 H:				
54	Labrador - Island Transmission Link	1837 d	05/14/12	05/24/17									▼		
55	Engineering, Contracting & Proc. for Converter Stations (to award)	510 d	05/14/12	10/05/13				I							
56	Engineering & Procurment - HVdc Tower Steel (to First Deliveries)	360 d	05/14/12	05/08/13			Ш								
57	SOBI Cable Award	78 d	05/14/12	07/30/12	🖦	L									
58	SOBI Cable Design & Supply	1310 d	07/31/12	03/01/16	]										
59	LITL EA Release	323 d	05/14/12	04/01/13					П						
60	Earthworks for LITL Conv Stns & SY	246 d	04/02/13	12/03/13	1										
61	HVdc TL Overland Construction - Island + Labrador	1380 d	06/11/13	03/21/17	1								Ш		
62	SOBI Shoreline Protection (HDD)	727 d	08/05/13	08/01/15	1							-	+		
63	Vendor Design, Procurement, Fab. & Delivery for Converter Stations	690 d	10/06/13	08/26/15	1										
64	Transition Compounds (Labrador & Island)	390 d	07/07/14	07/31/15	1							-	┨		
65	Converter Stations - Bldgs, etc (non-equipment)	390 d	08/01/14	08/25/15											
66	Soldier's Pond Switchyard & Sync Condeners	705 d	10/01/14	09/04/16									-		
67	Converter Station - Muskrat Falls (INCL site Dynamic Comm)	375 d	08/27/15	09/04/16									$\blacksquare$		
68	Converter Station - Soldier's Pond (EXCL site Dynamic Comm)	375 d	08/27/15	09/04/16											
69	Start of SOBI Cable Installation	1 d	06/01/16	06/01/16	1						F				
70	SOBI Cable Install. (all 3 cables - protection not complete) & Testing	92 d	06/02/16	09/01/16							Ď	+	#		
71	Dynamic Comm of SP CS (Need dc TX)	64 d	03/22/17	05/24/17									<b>h</b> .		
72	LITL System Ready for Overall System Commissioning	0 d	05/24/17	05/24/17									05	24	
73	Ready for Operations	202 d	05/25/17	12/12/17	1								虻	ė.	
74	LITL System Testing & Commissioning	30 d	05/25/17	06/23/17									h		
75	Labrador-Island Transmission Link In-Service	0 d	06/23/17	06/23/17									<b>₩</b> f	6/23	
76	Power Transmission to Island via LITL-LTA	0 d	06/23/17	06/23/17								4	<b>≻</b> ◆₫	6/23	
77	Power Transmission to Island via LITL-MF (First Power)	0 d	07/15/17	07/15/17									<b>◆</b> ]	)7/15	
78	Power Transmission to Island via LITL-MF (Full Power)	0 d	12/12/17	12/12/17	1								7	• 12/	12

			Time-Risk Mode	el	Task D	uration
ID	Task Description	Duration	Start	Finish	Best	Worst
01	Management	131 d	14-May-12	21-Sep-12		
02	Project Sanction	131 d	14-May-12	21-Sep-12	131	191
03	Muskrat Falls	2039 d	14-May-12	12-Dec-17		
04	Southside Access Road (to PH)	142 d	1-Jun-12	20-Oct-12	135	172
05	Contract Award for Accomodations Complex	58 d	14-May-12	10-Jul-12	118	178
06	Manufacturing/Delivery Starter Accomodations	47 d	11-Jul-12	26-Aug-12	40	61
07	FE Analysis & PH Reinforcing Design (Prelim)	80 d	14-May-12	1-Aug-12		
80	Contracting for Main Civil (CH0007) - from RFI	313 d	2-Aug-12	10-Jun-13	313	403
09	Selection of Preferred TG Bidder (CH0030)	94 d	14-May-12	15-Aug-12	87	120
10	Update CATIA & FE Analysis, Complete Reinforcing Design	180 d	16-Aug-12	11-Feb-13	150	220
11	Accomodations & Utilities - Starter Camp (150 Person)	110 d	30-Aug-12	17-Dec-12	89	150
12	Award Contract for Bulk Excavation (CH006)	131 d	14-May-12	21-Sep-12	116	161
13	T/Gs - Design & Fabrication	600 d	14-Oct-12	5-Jun-14	480	660
14	Construction Power (Post Road Construction)	35 d	21-Oct-12	24-Nov-12	28	42
15	Bulk Excavation - Powerhouse & Related Structures	385 d	20-Nov-12	9-Dec-13	325	475
16	Bulk Excavation - Spillway & Prep Foundation for Riverside Cofferdam	299 d	20-Nov-12	14-Sep-13	269	389
17	Accomodations & Utilities (Manuf/Del/Inst/comm) - Ph 2 (Complete)	250 d	18-Dec-12	24-Aug-13	220	320
18	Riverside (RCC) Cofferdam to El 16m (Seasonal)	30 d	15-Sep-13	14-Oct-13	25	40
19	Spillway Structure/concreting	330 d	15-Sep-13	10-Aug-14	285	450
20	North Spur (Pre-Headpond)	550 d	24-Oct-13	26-Apr-15	490	640
21	Concreting & Embedments - Service Bay & Unit 1	900 d	10-Dec-13	27-May-16	810	1,300
22	T/Gs - Manufacturing & Delivery - Unit 1	480 d	6-Jun-14	28-Sep-15	420	540
23	Spillway Hydromechanical	315 d	11-Aug-14	21-Jun-15	270	360
24	North Spur (Completion)	120 d	27-Apr-15	24-Aug-15	105	150

			Time-Risk Mode	el	Task [	Ouration
ID	Task Description	Duration	Start	Finish	Best	Worst
25	Start of Upstream Main Cofferdam (Seasonal)	1 d	1-Jul-15	1-Jul-15		
26	Upstream Main Cofferdam (Seasonal)	150 d	2-Jul-15	28-Nov-15	100	150
27	North RCC Dam c/w CVC Face	480 d	29-Nov-15	22-Mar-17		
28	Foundation Prep & Mud Slab	210 d	29-Nov-15	25-Jun-16	180	240
29	RCC Placement (Seasonal)	120 d	26-Jun-16	23-Oct-16	90	150
30	CVC Cap and Downstream Face	150 d	24-Oct-16	22-Mar-17	60	180
31	Powerhouse Superstructure (For crane)	180 d	30-Nov-15	27-May-16	150	210
32	Units 2-4 (Remainder of Primary & secondary Concrete + unit assembly)	360 d	28-May-16	22-May-17	330	420
33	Main Powerhouse Crane Installation - Unit 1	50 d	28-May-16	16-Jul-16	43	57
34	Pit Free Unit 1	0 d	27-May-16	27-May-16		
35	Install Spillway Bay - Rollways #1 & 2 (Seasonal)	105 d	1-Jul-16	13-Oct-16	90	135
36	Turbine & Generator Assembly - Unit 1	210 d	17-Jul-16	11-Feb-17	165	255
37	Ready to Turn - Unit 1	0 d	11-Feb-17	11-Feb-17		
38	Install Spillway Bay - Rollways #3, 4 & 5 (Seasonal)	125 d	14-Oct-16	30-Sep-17	110	170
39	Impound Reservoir	16 d	1-May-17	16-May-17	9	23
40	Wet Testing - Unit 1	60 d	17-May-17	15-Jul-17	30	90
41	Ready for Commerical Power - Unit 1 (First Power)	0 d	15-Jul-17	15-Jul-17		
42	Wet Testing & Commissioning - Units 2-4	150 d	16-Jul-17	12-Dec-17	120	210
43	Ready for Commerical Power - Units 2-4 (Full Power)	0 d	12-Dec-17	12-Dec-17		

			Time-Risk Mode	el	Task [	Ouration
ID	Task Description	Duration	Start	Finish	Best	Worst
44	Labrador Transmission Assets	1460 d	14-May-12	12-May-16		
45	Design of Hvac Switchyards (to RFI)	140 d	14-May-12	30-Sep-12	140	200
46	Hvac Overland Construction Labrador Seg 1 + Seg 2 (Incl Clearing & infrastruction	1000 d	24-Sep-12	20-Jun-15	960	1,100
47	Procurement Process to Contract Award - Switchyard Components	360 d	1-Oct-12	25-Sep-13	300	420
48	Earthworks at MF & CF Switchyards	240 d	8-Apr-13	3-Dec-13	150	270
49	Vendor Design, Fabrication & Delivery - Transformer	540 d	26-Sep-13	19-Mar-15	390	720
50	Vendor Design, Fabrication & Delivery - Switchgear, etc	360 d	26-Sep-13	20-Sep-14	300	450
51	Hvac Switchyard - Muskrat Falls	600 d	21-Sep-14	12-May-16	420	690
52	Hvac Switchyard - Churchill Falls	600 d	21-Sep-14	12-May-16	420	690
53	LTA Ready for Power transmission	0 d	12-May-16	12-May-16		

			Time-Risk Mode	el	Task D	uration
ID	Task Description	Duration	Start	Finish	Best	Worst
54	Labrador - Island Transmission Link	1837 d	14-May-12	24-May-17		
55	Engineering, Contracting & Procurement for Converter Stations (to award)	510 d	14-May-12	5-Oct-13	330	600
56	Engineering & Procurment - HVdc Tower Steel (to First Deliveries)	360 d	14-May-12	8-May-13	300	480
57	SOBI Cable Award	78 d	14-May-12	30-Jul-12	18	138
58	SOBI Cable Design & Supply	1310 d	31-Jul-12	1-Mar-16	1,160	1,370
59	LITL EA Release	323 d	14-May-12	1-Apr-13	293	413
60	Earthworks for LITL Conv Stns & SY	246 d	2-Apr-13	3-Dec-13	186	306
61	HVdc TL Overland Construction - Island + Labrador	1380 d	11-Jun-13	21-Mar-17	1,200	1,745
62	SOBI Shoreline Protection (HDD)	727 d	5-Aug-13	1-Aug-15	667	907
63	Vendor Design, Procurement, Fabrication & Delivery for Converter Stations	690 d	6-Oct-13	26-Aug-15	600	810
64	Transition Compounds (Labrador & Island)	390 d	7-Jul-14	31-Jul-15	330	480
65	Converter Stations - Bldgs, etc (non-equipment)	390 d	1-Aug-14	25-Aug-15	300	450
66	Soldier's Pond Switchyard & Sync Condeners	705 d	1-Oct-14	4-Sep-16	525	765
67	Converter Station - Muskrat Falls (INCL site Dynamic Comm)	375 d	27-Aug-15	4-Sep-16	315	435
68	Converter Station - Soldier's Pond (EXCL site Dynamic Comm)	375 d	27-Aug-15	4-Sep-16	315	435
69	Start of SOBI Cable Installation	1 d	1-Jun-16	1-Jun-16		
70	SOBI Cable Install. (all 3 cables - protection not complete) & Testing	92 d	2-Jun-16	1-Sep-16	62	137
71	Dynamic Comm of SP CS (Need dc TX)	64 d	22-Mar-17	24-May-17	54	94
72	LITL System Ready for Overall System Commissioning	0 d	24-May-17	24-May-17		
73	Ready for Operations	202 d	25-May-17	12-Dec-17		
74	LITL System Testing & Commissioning	30 d	25-May-17	23-Jun-17	20	90
75	Labrador-Island Transmission Link In-Service	0 d	23-Jun-17	23-Jun-17		
76	Power Transmission to Island via LITL-LTA	0 d	23-Jun-17	23-Jun-17		
77	Power Transmission to Island via LITL-MF (First Power)	0 d	15-Jul-17	15-Jul-17		
78	Power Transmission to Island via LITL-MF (Full Power)	0 d	12-Dec-17	12-Dec-17		

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It is important to note that the scope of work for Westney Consulting Group was for Westney to guide and facilitate the Risk Resolution® Process, using the consultants' experience to ask the right questions and, where appropriate, challenge the Nalcor Energy participant's thinking. This resulted in an outcome of the analysis that represented the best thinking and efforts of both the Nalcor Energy participants and the consultants from Westney.