

Lower Churchill Project								
Tactical Cost Risk Assessment							Risk Range	
Cost Category	DG3 Estimate (C\$ MM)	Spent to Date (C\$ MM)	Special Adjustments (C\$ MM)	Cost to be Risked (C\$ MM)	Best - What % Less Could It Cost? (enter as negative)	Worst - What % More Could It Cost?	Best Cost (C\$ MM)	Worst Cost (C\$ MM)
Muskrat Falls Generation								
A.a - Accommodations Complex, Admin. and Utilities	90.6				-5	10	86.1	99.7
A.b - South Side Access Road	29.0						35.0	54.0
A.c - Construction Power	17.8				-5	10	16.9	19.5
A.d - Offsite Access	12.0						2.0	14.0
A.e - Bulk Excavation Works and Associated Civil Works	132.0						120.0	155.0
A.f - Intake and Powerhouse, Spillway and Transit. Dams	665.5						665.0	750.0
A.g - North Spur Stabilization Works	61.4						58.0	80.0
A.h - North RCC and South Rockfill Dams	114.1						110.0	155.0
A.i - Reservoir Clearing	143.2						130.0	165.0
A.j - Turbines and Generators	253.3						190.0	260.0
A.k - Powerhouse Mechanical and Electrical Auxiliaries	90.9						80.0	120.0
A.l - Hydro-Mechanical Equip. - Powerhouse and Spillway	150.8						130.0	165.0
A.m - Powerhouse Crane and Elevator	9.4				-5	10	9.0	10.4
A.n - Telecommunications (incl. Labrador Fibre Project)	46.2				-5	10	43.9	50.8
A.o - Habitat Compensation Works (Fish)	10.1						9.5	11.0
A.p - GSU Trans., Isolated Phase Bus and Gen. Cir. Brk.	26.4						21.0	26.0
A.q - Site Maint. Services (Road, Camp, Trash, etc.)	11.4				-5	10	10.8	12.5
A.r - Catering, Housekeeping and Janitorial Services	138.8						140.0	180.0
A.s - Ground Transportation Services (HVGB to MF)	12.7						12.0	14.0
A.t - Medical and Security Services	41.1						36.0	45.0
A.u - Surveying Services	13.3						12.0	15.0
A.v - Laboratory Services	28.4						27.0	31.0
A.w - Air Transport	82.7						83.0	105.0
Muskrat Falls Generation Total, C\$ MM	2,180.8	0.0	0.0	0.0			2,027.1	2,537.9

Notes:



Muskrat Falls

= changed estimate

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Labrador - Island Transmission Link excluding SOBI Crossing								
B.a - Converters - MF and Soldier's Pond - EPC	372.0						365.0	390.0
B.b - Cable Transition Compounds - EPC	52.4						50.0	58.0
B.c - Synchronous Condensers - Supply & Install	111.3						111.0	130.0
B.d - Soldier's Pond Switchyard	63.4						53.0	70.0
B.e - Electrode Sites	27.3				-5	10	26.0	30.1
B.f - Island Sys. Upgr. -Holyrood Con.+Breakers+AC Reb.	40.4				-5	10	38.4	44.4
B.g - Clearing Right of Way for HVdc Transmission Line	149.7						130.0	200.0
B.h - Construction of 350 kV HVdc Trans. Line - Section 1	312.5						290.0	400.0
B.i - Construction of 350 kV HVdc Trans. Line - Section 2	171.8						160.0	220.0
B.j - Supply of Found. and Steel Towers - 350 kV HVdc	73.6				-5	10	70.0	81.0
B.k - Conductor, OPGW, Insulators & Other-350 kV HVdc	182.8						165.0	190.0
LITL excluding SOBI Total, C\$ MM	1,557.2	0.0	0.0	0.0			1,458.3	1,813.5

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SOBI Crossing					
B.m - SOBI Landfall / HDD Scope	85.3	75.0		105.0	
B.n - SOBI Cable Supply & Install	173.4	125.0		200.0	
B.o - SOBI Seabed Protection	78.6	50.0		95.0	
SOBI Crossing Total, C\$ MM	337.3	250.0		400.0	

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Labrador Transmission Assets								
C.a - Clearing ROW for 315 kV HVac Trans. Line (MF-CF)	30.6						27.0	41.0
C.b - Construction of 315 kV HVac Trans. Line (MF to CF)	196.1						180.0	250.0
C.c - Supply of Found. and Steel Towers - 315 kV HVac	29.4				-5	10	27.9	32.3
C.d - Conductor, OPGW, Insulators & Other-315 kV HVac	40.7						37.0	43.0
C.e - Churchill Falls Switchyard	193.2				-5	10	183.5	212.5
C.f - Muskrat Falls Switchyard	37.3				-5	10	35.4	41.0
Labrador Transmission Assets Total, C\$ MM	527.3	0.0	0.0	0.0			490.9	619.8

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General								
D.a - EPCM Services - SNC Lavalin Inc.	352.5						352.5	450.0
D.b - Integrated Commissioning Support Services	14.3				-5	10	13.6	15.8
D.c - Project Vehicles	3.3						3.0	6.0
D.d - Helicopter Services	13.6						13.8	26.0
D.e - Insurance	22.9						23.0	70.0
D.f - Financing and Commerical (\$30 MM added to Worst Ca	9.6						9.0	42.0
D.g - Owner's Project Team	216.9						220.0	240.0
D.h - Land Acquisition and Permits	22.7						15.0	26.0
D.i -Third Party Quality Surveillance & Inspection Services	4.4						4.0	6.0
D.j - Freight Forwarding Services	6.0						6.0	12.0
D.k - Environmental	19.4						17.0	26.0
D.l - Aboriginal	28.8						28.8	90.0
General Total, C\$ MM	714.5	0.0	0.0	0.0			705.7	1,009.8

Notes: