

Muskrat Falls Project Oversight Committee

December 2016 Reporting

February 24, 2017

Project Progress

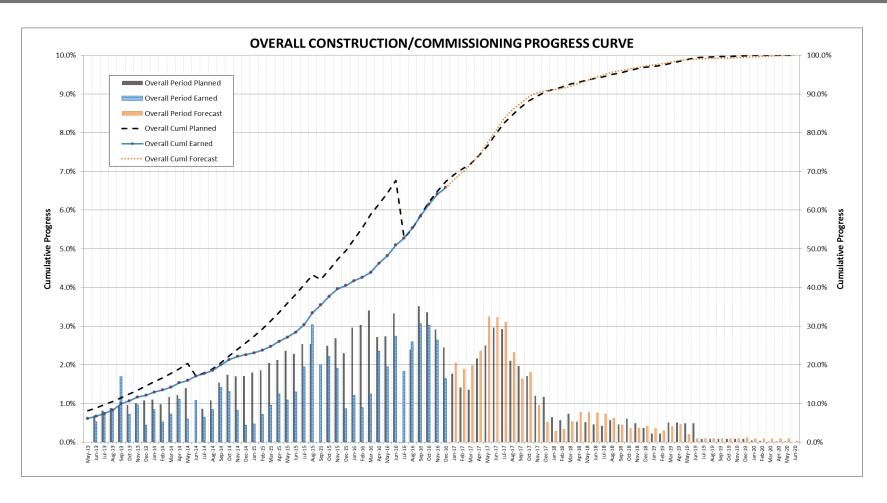


Muskrat Falls Project Progress at December 2016

	NA /-'	Decembe	November		
December 2016	Weight Factor %	<u>Planned</u>	<u>Earned</u>	<u>Variance</u>	<u>2016</u> <u>Variance</u>
Sub-Project	Α	В	С	D = C - B	Е
Muskrat Falls Generation (MFGen)	46.3%	61.8%	58.2%	-3.6%	-3.0%
Labrador Island Transmission Link (LITL)	43.9%	68.2%	68.2%	0.0%	1.1%
Labrador Transmission Asset (LTA)	9.8%	90.3%	91.6%	1.3%	1.2%
Muskrat Falls Project - Overall	100.0%	67.4%	65.8%	-1.6%	-0.8%

Progress Curve Muskrat Falls





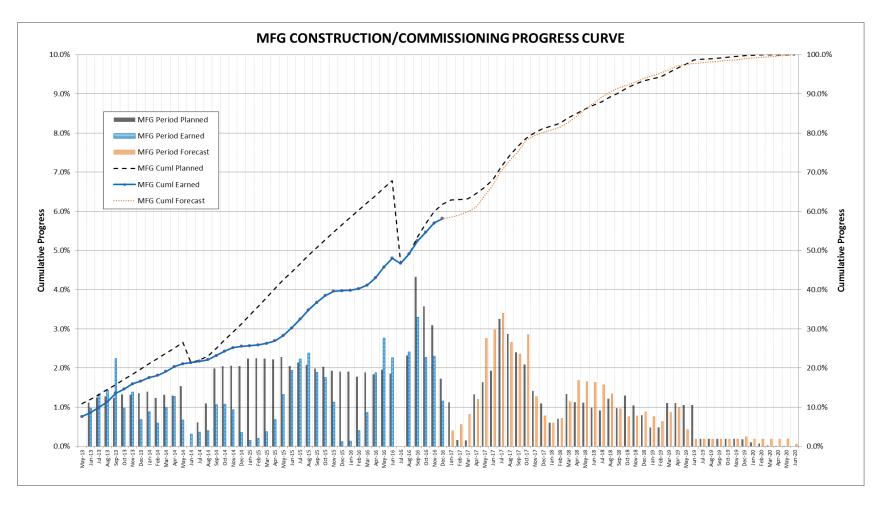
Earned Progress MF Generating Facility



	\\\\a\:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>December</u>	November		
December 2016	Weight Factor %	<u>Plan</u>	<u>Earned</u>	<u>Variance</u>	<u>2016</u> <u>Variance</u>
Sub-Project	Α	В	С	D = C - B	Е
MFG Road/Camp/Constr. Power	8.9%	100.0%	100.0%	0.0%	0.0%
MFG Reservoir Preparation	5.8%	100.0%	95.1%	-4.9%	-5.9%
MFG Spillway & Gates	12.2%	84.2%	84.5%	0.3%	-0.1%
MFG North Spur Stabilization	3.9%	99.0%	98.2%	-0.8%	-0.8%
MFG North Dam	5.7%	36.3%	24.2%	-12.1%	-12.1%
MFG Powerhouse & intake	61.3%	47.9%	43.7%	-4.2%	-3.2%
MFG South Dam	1.1%	71.6%	68.3%	-3.3%	-3.3%
MFG Misc:Eng/ 315kV/Site Rest./logistic	1.1%	65.9%	64.5%	-1.4%	4.2%
MFGen - Overall	100.0%	61.8%	58.2%	-3.6%	-3.0%

Progress Curve MF Generating Facility





Earned Progress Labrador Island Transmission Link

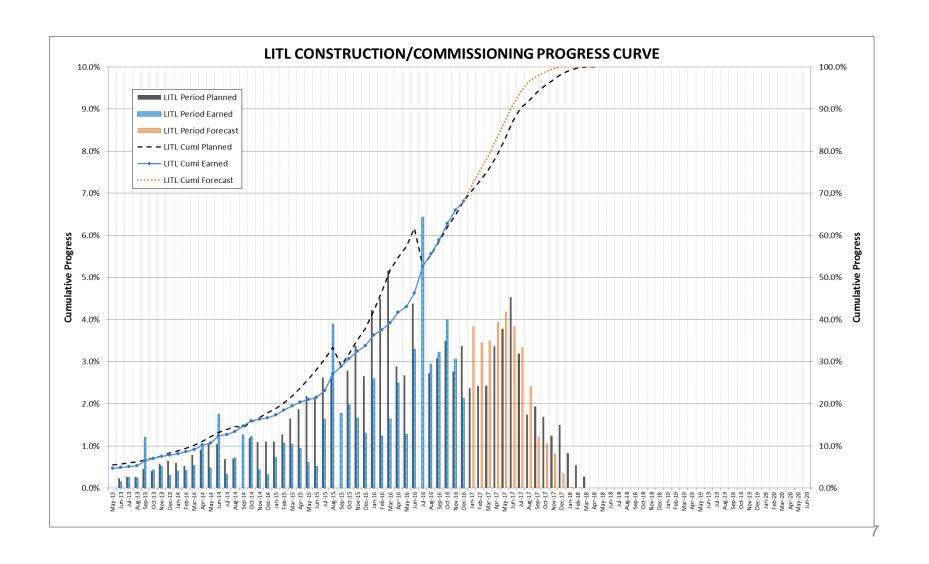


	Weight	December 2016 Cumulative %			November
December 2016	Factor %	<u>Plan</u>	<u>Earned</u>	<u>Variance</u>	2016 Variance
Sub-Project	Α	В	С	D = C - B	E
LITL Muskrat Falls Converter	6.1%	28.1%	28.1%	0.0%	0.1%
LITL Soldiers Pond Converter	5.5%	28.8%	29.7%	0.9%	0.9%
LITL HVdc Transmission Line Seg 1/2	26.8%	95.0%	90.9%	-4.1%	-3.2%
LITL HVdc Transmission Line Seg 3/4/5	34.2%	44.7%	48.2%	3.5%	4.9%
LITL Electrode Sites	0.8%	75.0%	75.0%	0.0%	0.0%
LITL Transition Compounds	1.7%	62.1%	62.1%	0.0%	0.0%
LITL SOBI Cable Crossing	17.7%	99.8%	100.0%	0.2%	0.3%
LITL Soldiers Pond Switchyard	2.7%	72.6%	83.9%	11.3%	15.0%
LITL Soldiers Pond Sync. Condenser	3.1%	60.4%	48.3%	-12.1%	-3.4%
LITL Misc	1.4%	69.0%	63.9%	-5.1%	-7.0%
LITL- Overall	100.0%	68.2%	68.2%	0.0%	1.1%

Progress Curve

Newfoundland Labrador

Labrador Island Transmission Link



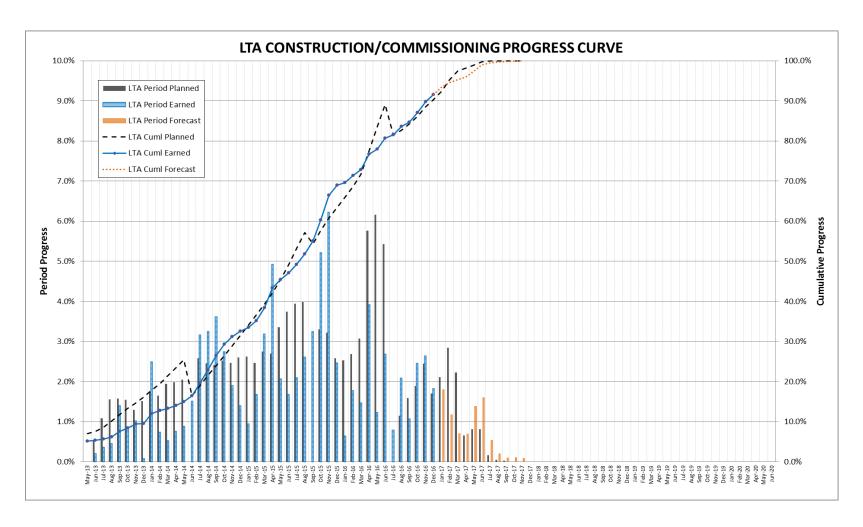
Earned Progress Labrador Transmission Assets



	Weight	nt December 2016 Cumulative %			November
December 2016	Factor %	<u>Plan</u>	<u>Earned</u>	<u>Variance</u>	<u>2016</u> <u>Variance</u>
Sub-Project	Α	В	С	D = C - B	Е
LTA CF Accommodations	N/A	N/A	N/A	N/A	N/A
LTA HVac Transmission Line Seg1/2 - MF to CF	62.8%	100.0%	100.0%	0.0%	0.0%
LTA Churchill Falls Switchyard	21.7%	75.9%	83.4%	7.5%	7.6%
LTA Muskrat Falls Switchyard	13.4%	67.0%	71.3%	4.3%	3.9%
LTA Misc	2.1%	97.4%	53.4%	-44.0%	-47.9%
LTA - Overall	100.0%	90.3%	91.6%	1.3%	1.2%

Progress Curve Labrador Transmission Assets





Project Costs



Muskrat Falls Project Costs at December 2016 (\$000's)

Muskrat Falls Project: Sub-Project	Percentage of Total Budget	Project Budget at June 2016	Planned Costs as of November 2016	Incurred Costs as of November 2016	Percentage of Budget Incurred	Variance Planned vs. Incurred Costs	Variance as % of Planned Costs	Project Forecast Cost
Muskrat Falls Generating Facility	54.0%	\$5,071,414	\$2,943,651	\$2,943,964	58.1%	\$313	0.0%	\$5,071,414
Labrador-Island Transmission Link	36.7%	\$3,447,394	\$2,446,873	\$2,428,239	70.4%	(\$18,634)	-0.8%	\$3,447,394
Labrador Transmission Assets	9.3%	\$877,557	\$799,088	\$749,843	85.4%	(\$49,245)	-6.2%	\$877,557
Total	100.0%	\$9,396,365	\$6,189,612	\$6,122,046	65.2%		-1.1%	\$9,396,365

- MFGen budget increased by \$270 million
- Final Forecast Cost overall remains unchanged based on Dec 2016
 MFGen increase





Contingency Budget at December 2016 (\$ 000's)

		Project			
		Forecast	Project		
	Project	Cost	Forecast Cost	Change from	Variance
	Budget June	November	December	Previous	PFC from
Muskrat Falls Project Overall	2016	2016	2016	Period	Budget
Total Project	\$386,151	\$310,990	\$297,428	(\$13,562)	(\$88,723)