# Muskrat Falls Project Oversight Committee 

February Reporting March 22, 2018

## February 2018 Project Progress




## Muskrat Falls Project Progress at February 2018

| February 2018 | Weight <br> Factor \% | February 2018 Cumulative \% |  |  | January 2018 <br> Variance |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Planned | Earned | Variance |  |
| Sub-Project | A | B | C | D $=$ C-B | E |
| Muskrat Falls Generation (MFGen) | 46.3\% | 80.4\% | 79.3\% | -1.1\% | -0.8\% |
| Labrador Island Transmission Link (LITL) | 43.9\% | 99.7\% | 98.8\% | -0.9\% | -0.8\% |
| Labrador Transmission Asset (LTA) | 9.8\% | 100.0\% | 99.5\% | -0.5\% | -0.6\% |
| Muskrat Falls Project - Overall | 100.0\% | 90.8\% | 89.8\% | -1.0\% | -0.8\% |

## Overall Progress Curve



## Earned Progress MF Generating Facility

## February 2018

Sub-Project
MFG Road/Camp/Constr. Power
MFG Reservoir Preparation
MFG Spillway \& Gates
MFG North Spur Stabilization
MFG North Dam
MFG Powerhouse \& Intake
MFG South Dam
MFG Misc:Eng/ 315kV/Site Rest./logistic
MFGen - Overall

| Weight Factor \% | February 2018 Cumulative \% |  |  | $\frac{\text { January } 2018}{\text { Variance }}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Plan | Earned | Variance |  |
| A | B | c | $D=C-B$ | E |
| 8.9\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| 5.8\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| 12.2\% | 95.3\% | 85.5\% | -9.8\% | -8.5\% |
| 3.9\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| 5.7\% | 64.6\% | 57.3\% | -7.3\% | -7.3\% |
| 61.3\% | 72.7\% | 73.6\% | 0.9\% | 1.1\% |
| 1.1\% | 100.0\% | 99.2\% | -0.8\% | -0.8\% |
| 1.1\% | 78.0\% | 75.5\% | -2.5\% | -2.5\% |
| 100.0\% | 80.4\% | 79.3\% | -1.1\% | -0.8\% |

## Progress Curve MF Generating Facility



## Earned Progress <br> Labrador Island Transmission Link

## February 2018

## Sub-Project

LITL Muskrat Falls Converter
LITL Soldiers Pond Converter
LITL HVdc Transmission Line Seg 1/2
LITL HVdc Transmission Line Seg 3/4/5
LITL Electrode Sites
LITL Transition Compounds
LITL SOBI Cable Crossing
LITL Soldiers Pond Switchyard
LITL Soldiers Pond Sync. Condensors
LITL Misc

|  | Weight | February 2018 Cumulative \% |  |  | $\frac{\text { January } 2018}{\text { Variance }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Factor \% | Plan | Earned | Variance |  |
|  | A | B | C | D $=\mathrm{C}-\mathrm{B}$ | E |
|  | 6.1\% | 99.9\% | 93.0\% | -6.9\% | -9.1\% |
|  | 5.5\% | 100.0\% | 95.2\% | -4.8\% | -6.5\% |
|  | 26.8\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
|  | 34.2\% | 99.3\% | 100.0\% | 0.7\% | 2.1\% |
|  | 0.8\% | 100.0\% | 99.3\% | -0.7\% | -1.6\% |
|  | 1.7\% | 99.0\% | 97.7\% | -1.3\% | -2.5\% |
|  | 17.7\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
|  | 2.7\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
|  | 3.1\% | 100.0\% | 89.7\% | -10.3\% | -12.5\% |
|  | 1.4\% | 100.0\% | 87.5\% | -12.5\% | -12.7\% |
| LITL- Overall | 100.0\% | 99.7\% | 98.8\% | -0.9\% | -0.8\% |

## Progress Curve

## Labrador Island Transmission Link



## Earned Progress Labrador Transmission Assets

## February 2018

## Sub-Project

LTA HVac Transmission Line Seg 1/2-MF to CF
LTA Churchill Falls Switchyard
LTA Muskrat Falls Switchyard
LTA Misc

|  | Weight | February 2018 Cumulative \% |  |  | $\frac{\text { January } 2018}{\text { Variance }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Factor \% | Plan | Earned | Variance |  |
|  | A | B | c | $D=C-B$ | E |
| CF | 62.8\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
|  | 21.7\% | 100.0\% | 99.9\% | -0.1\% | -0.1\% |
|  | 13.4\% | 100.0\% | 97.1\% | -2.9\% | -3.9\% |
|  | 2.1\% | 100.0\% | 93.5\% | -6.5\% | -3.7\% |
| LTA - Overall | 100.0\% | 100.0\% | 99.5\% | -0.5\% | -0.6\% |

## Progress Curve

## Labrador Transmission Assets



## Muskrat Falls Project Costs at February 2018 (\$000’s)

| Muskrat Falls Project: SubProject | Percentage of Total Budget | Project Budget at June 2017 | Planned Costs as of February 2018 | Incurred Costs as of February 2018 | Percentage of Budget Incurred | Variance <br> Planned vs. Incurred Costs | Variance as \% of Planned Costs | Project Forecas |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Muskrat Falls Generating Facility | 54.36\% | \$5,500,056 | \$4,007,360 | \$4,037,161 | 73.4\% | \$29,801 | 0.7\% | \$5,500,056 |
| Labrador-Island Transmission Link | 36.81\% | \$3,723,716 | \$3,532,918 | \$3,371,970 | 90.6\% | (\$160,948) | -4.6\% | \$3,723,716 |
| Labrador Transmission Assets | 8.83\% | \$893,556 | \$885,810 | \$838,383 | 93.8\% | $(\$ 47,427)$ | -5.4\% | \$893,556 |
| Total | 100.0\% | \$10,117,328 | \$8,426,088 | \$8,247,514 | 81.5\% | (\$178,574) | -2.1\% | \$10,117,328 |

Final Forecast Cost unchanged from June 2017 AFE

## Contingency Budget at February 2018 (\$ 000’s)

| Muskrat Falls: Sub-project | Project Budget <br> June 2017 |
| :--- | ---: |
| Muskrat Falls Generating Facility | $\$ 226,400$ |
| Labrador-Island Transmission Link | $\$ 102,750$ |
| Labrador Transmission Assets | $\$ 10,012$ |
| Total Project | $\$ 339,162$ |


| Project Forecast |  |  |  |
| ---: | ---: | ---: | ---: |
| Cost January |  |  |  |
| 2018 | Project Forecast <br> Cost February <br> Corom | Change from <br> Previous Period | Variance PFC <br> from Budget |
| $\$ 185,309$ | $\$ 195,243$ | $\$ 9,934$ | $(\$ 31,157)$ |
| $\$ 137,938$ | $\$ 118,872$ | $(\$ 19,066)$ | $\$ 16,122$ |
| $\$ 7,112$ | $\$ 11,365$ | $\$ 4,253$ | $\$ 1,353$ |
| $\$ 330,359$ | $\$ 325,480$ | $(\$ 4,879)$ | $(\$ 13,682)$ |

