

**2018 Capital Budget Application – Muskrat Falls to Happy Valley Interconnection Project**

- 1 Q. **Reference: Letter from NLH to the Board, dated November 30, 2018**
- 2 Project schedule
- 3 Please provide the detailed execution plan for the proposed MFA – HVY
- 4 Interconnection Project, including target dates for the procurement of long lead
- 5 items, internal and external approvals and steps on the critical path.
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- 8 A. As the Muskrat Falls to Happy Valley Interconnection project has not yet been
- 9 approved and a start date has not yet been identified, a detailed execution plan has
- 10 not yet been developed. Assuming that project approval is granted in early 2019,
- 11 the following is a high level summary. The critical items related to maintaining
- 12 expected completion dates are: receiving approval to proceed; engineering design;
- 13 and procurement of long lead equipment, such as 138 kV switchgear and protection
- 14 and control panels. Table 1 provides the Muskrat Falls to Happy Valley
- 15 Interconnection project summary schedule.

**Table 1: Muskrat Falls to Happy Valley Interconnection Project Summary Schedule**

<b>Project Initiation</b>			
<b>Item</b>	<b>Task</b>	<b>Start (month - year)</b>	<b>Finish (month - year)</b>
1	Project Approval from Board of Public Utilities	Jan-2019	Feb-2019
2	Open project and develop detailed project execution plan	Feb-2019	Feb-2019
<b>Engineering Summary</b>			
<b>Item</b>	<b>Task</b>	<b>Start (month - year)</b>	<b>Finish (month - year)</b>
1	Civil/Structural Detailed Design	Feb-2019	Jun-2019
2	Electrical Detailed Design	Feb-2019	Jun-2019
3	P&C Detailed Design	Mar-2019	Aug-2019
4	Telecom Detailed Design	Feb-2019	Jun-2019
5	Transmission and Distribution Design	Feb-2019	Jun-2019

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<b>Procurement/Contracts Summary</b>			
<b>Item</b>	<b>Task</b>	<b>Start (month - year)</b>	<b>Finish (month - year)</b>
1	Control Building Procurement	Jun-2019	Aug-2020
2	138 kV Breakers Procurement	Feb-2019	Jul-2019
3	Station Post Insulators Procurement	Feb-2019	Aug-2019
4	CVT Procurement	Feb-2019	Sep-2019
5	138 kV Disconnect Switch Procurement	Feb-2019	Aug-2019
6	Surge Arrestor Procurement	Feb-2019	Jun-2019
7	Bus Work, Conductor, Hardware Procurement	Mar-2019	Aug-2019
8	Power Transformer Procurement	Apr-2019	Jun-2020
9	25kv Breaker Procurement	Jun-2019	Aug-2020
10	Electrical Material Procurement (LV cables, station-service transformer, etc.)	Mar-2019	Aug-2019
11	P&C Material Procurement (relays, cables, test switches, etc.)	Mar-2019	Nov-2019
12	P&C Panel Procurement	Jun-2019	Apr-2020
13	Award Terminal Station Civil/Elec Contract 1 (MFATS2, MFATS3, HVY 2019 work)	Jun-2019	Jul-2019
14	Award Terminal Station Civil/Elec Contract 2 (HVY 2020 work)	Oct-2019	Dec-2019
15	Award P&C Installation/Commissioning Contract 1 (2019 work)	Jul-2019	Sep-2019
16	Award P&C Installation/Commissioning Contract 2 (2020 work)	Oct-2019	Dec-2019
17	Transmission Material Procurement (hardware, conductor, poles/anchors)	Mar-2019	Jun-2019
18	Award Transmission Construction Contract Tender	May-2019	Jul-2019
<b>Construction Summary</b>			
<b>Item</b>	<b>Task</b>	<b>Start (month - year)</b>	<b>Finish (month - year)</b>
1	Transmission Line Construction	Jul-2019	Dec-2019
2	Terminal Station Civil/Elec Construction (Contract 1) - MFATS2, MFATS3, HVY 2019 Work	Jul-2019	Dec-2019
3	P&C Installation/Commissioning (Contract 1) - 2019 Work	Sep-2019	Dec-2019
4	Terminal Station Civil/Elec Construction (Contract 2) - HVY 2020 Work	Jun-2020	Oct-2020
5	P&C Installation/Commissioning (Contract 2) - 2020 Work	Sep-2020	Nov-2020