
Nova Scotia Utility and Review Board

IN THE MATTER OF

*The Maritime Link Act, S.N.S 2012 c.9
and the
Maritime Link Cost Recovery Process Regulation, N.S. Reg. 189/2012*

NSPML Quarterly Report Q2 2020

June 15, 2020

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1 **1.0 INTRODUCTION**

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3 This is the Q2 2020 Quarterly Report for the Maritime Link as directed by the Utility
4 and Review Board (UARB) where the UARB ordered in its Supplemental Decision:

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6 [115]....detailed reports must be filed by NSPML on a semi-
7 annual basis, on June 15 and December 15 each year. The reports
8 shall commence December 15, 2013. Updated status reports must
9 be filed quarterly.

10

11 As per the UARB’s order in its Decision regarding the Maritime Link Interim Cost
12 Assessment (M07718), this Report now includes detail regarding the status of the
13 construction of Nalcor’s assets.

14

15 This Decision also requested that the quarterly reports include an accounting of all
16 transactions related to this project, cash flow analysis, and a reporting of the financial
17 and other benefits realized for ratepayers from the Maritime Link prior to delivery of
18 the Nova Scotia Block and Nalcor market-priced energy. Given that the benefits to
19 ratepayers prior to the Nova Scotia Block and Nalcor market-priced energy are secured
20 by Nova Scotia Power through the Maritime Link, Nova Scotia Power will report on
21 these in its Quarterly Fuel Adjustment Mechanism Report.

1 **2.0 UPDATE OF PROJECT SCHEDULE**

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3 The Maritime Link was placed in-service on January 15, 2018.

4

5 Detail respecting the status of the Nalcor Project and Muskrat Falls is outlined in
6 Section 2.9.

7

8 **2.1 Gates and Milestones**

9

10 The Maritime Link was placed in-service January 15, 2018.

11

12 **2.2 Safety**

13

14 Improving and advancing the safety of Maritime Link remains one of NSPML’s most
15 fundamental strategic objectives. NSPML consistently works to address and enhance
16 safety through coordinated activities and targets and has set out to promote health and
17 safety in the workplace, including the physical and mental health of all employees.

18

19 There have been no recordable incidents to date in 2020 and operations staff are
20 adhering to safety protocol established in response to COVID-19.

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22 **2.3 Commercial Activities**

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24 The key major procurement activities are presented in Table 1 with an update of the
25 status for each initiative.

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1 **Table 1 Key Major Procurement Activities**

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Commercial Activity	Background	Initiative Number	Status in June 2020
HVDC Submarine Cable Supply and Installation	The Contract was awarded to Nexans in January 2014. Substantial Completion occurred in September, 2017. Contract Final Completion Certificate signed February 5, 2018.	E11-18	Closed
Converter stations, switchyards and related structures (“converters and structures”)	The Contract was awarded to ABB Inc. in June 2014. Final System Test Completed January 15, 2018. Substantial Completion achieved on January 15, 2018.	E12-74	System studies requirements are being finalized, anticipated by Q3 2020.
Right of Way Clearing along Transmission Lines	Contracts were awarded to Majors Logging Limited in NL and to R. MacLean Forestry in NS in February 2014.	E13-88	Closed
Transmission Structures and Grillages	The Contract was awarded to Kalpataru Power Transmission Ltd. in September 2014 for design and delivery of Structures and Grillages.	E13-85	Closed

Commercial Activity	Background	Initiative Number	Status in June 2020
Site Preparation Services (Includes construction of access road upgrades)	<p>The Contract was awarded to JonelJim Concrete Construction (1994) Ltd. for NS Site Preparation Services in September 2014.</p> <p>Contracts awarded to Marine Contractors Inc., MCI Limited Partnership for NL Site Preparation Services in September 2014.</p>	E13-92	<p>Closed</p> <p>Closed</p>
Transmission Line Construction	<p>E13-95 contract terminated as of late 2016.</p> <p>Contract replaced with E16-284 and E16-269 previously reported.</p>	E13-95	Contract Closeout is in progress.
Transmission Line Construction – NL AC Line	The contract with PowerTel was re-assigned to NSPML for the completion of the two Grounding Lines and the HVAC Line. Final Completion was achieved January 31, 2019.	E16-284	Contract Closeout is in progress.
Transmission Line Construction - NL and NS HVDC Lines	The contract for the construction of the HVDC Transmission Lines was awarded to a joint venture of Emera Utility Services and Rokstad Power Corporation (ERJV).	E16-269	Contract Closeout is in progress.

Commercial Activity	Background	Initiative Number	Status in June 2020
Transmission Line Conductors	<p>The Contract for the supply of conductors was awarded to Midal Cables in March 2015.</p> <p>The contract for the supply of OPGW was awarded to Composite Power Group Inc. in June 2015. This is also within the scope of the E13-87 initiative.</p>	E13-87	<p>Closed</p> <p>Closed</p>
Horizontal Directional Drill (HDD) Construction Program	<p>Contract awarded to Directional Horizontal Drilling (DHD) in January 2016.</p> <p>E13-157 was divided into two contracts.</p> <p>E13-157 A was awarded to Schlumberger in March 2016 for the supply of HDD fluids. E13-157B was awarded to Baker Hughes in April 2016 for the Supply of directional drilling services, drill bits and other materials.</p> <p>E13-158 for marine intervention services was awarded in April 2016 to DOF Marine.</p> <p>The supply of the HDD casing (E15-238) was awarded to East Coast Tubulars Limited in October 2015.</p>	<p>E13-156</p> <p>E13-157</p> <p>E13-158</p> <p>E15-238</p>	<p>Closed</p> <p>Closed</p> <p>Closed</p> <p>Closed</p>

NSPML

Commercial Activity	Background	Initiative Number	Status in June 2020
Accommodations Operations	The contract for the accommodations operations services was awarded to East Coast Catering in April 2015.	E13-89	Closed

1

1 **2.3.1 Land Access Agreements**

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3 The majority of land rights are now in place, and NSPML is in the final stages of
4 securing any outstanding rights; moving to expropriation as required where agreement
5 could not be reached, or landowners could not be found. These easements do not
6 impact the ability of the project to complete contract closeouts or to operate according
7 to plan.

8

9 **2.3.2 Funding**

10

11 The IE Certificates allow for Project costs to be paid from the proceeds of the
12 Maritime Link Construction Loan under the payment terms of the Material Project
13 Documents and the Maritime Link Credit Agreement. A draw was requested and
14 approved in February 2020 which was the final draw on the \$1.3 billion proceeds. The
15 IE does not issue a Certificate specific to draws that occur after Commissioning such
16 as this most recent draw. Any such draws must be approved by the Collateral Agent
17 acting on Canada's behalf.

18

19 **2.3.3 Joint Development Agreements**

20

21 NSPML continues to work with Nalcor and NS Power to finalize the remaining
22 operational agreements arising from the Formal Agreements with Nalcor. Please refer
23 to Attachment 1 for details on the status of these Agreements, which indicate four
24 Agreements remain to be concluded.

1 **2.4 Engineering Activities**

2

3 Engineering is captured in three main categories across several Work Breakdown
4 Structures (“WBSs”):

5

6 • HVDC Submarine Cable Supply and Installation - Completed.

7

8 • HVDC Converters and Substations – All HVDC Converters and AC
9 Substations drawings are complete and have been accepted. The second draft
10 of the short circuit performance study (and the associated system models) has
11 been received and is under review.

12

13 • Overland Transmission – All project as-builts completed.

14

15 **2.5 Submarine Cables**

16

17 The Cable Integrity Risk Assessment (CIRA) model has been updated using the 2019
18 survey results and indicates the Maritime Link remains well protected and aligned
19 with industry best practice. Ice risk continues to be the governing external threat to the
20 cables with the primary source of this risk continuing to be sea-ice over the last
21 kilometre approaching the HDD outlet at Point Aconi. Following the burial of the
22 cables below 400 meters, risk from anchors and fishing gear is low and the overall
23 return periods are within industry norms.

24

25 Procurement activities are underway for the 2020 Cable Inspection Survey, with the
26 objective of completing a full survey of both cables. If COVID-19 response measures
27 persist during the planned execution of this work, a contingency plan has been
28 developed to complete a partial survey in a manner aligned with the required
29 protection measures.

30

1 Additionally, the team has initiated discussions on a Contingency Services Agreement
2 to support the broader Cable Inspection, Maintenance and Repair Framework. The
3 objective is to conclude contract discussions in the third quarter this year.
4

5 **2.6 Converters and Substations**

6
7 The Construction of the Converters and Substations was completed with the
8 conclusion of system testing and the Maritime Link placed in-service on January 15,
9 2018 and all punch list items are completed.
10

11 **2.7 Transmission Lines**

12
13 NSPML is finalizing multiple procurements with respect to HVDC Transmission
14 works in 2020, which will confirm the approach to the previously identified corrective
15 work related to Optical Ground Wire (OPGW) suspension clamps, OPGW/Overhead
16 Shield Wire (OHSW) jumpers, and conductors damage resulting from loose vibration
17 dampers. Designs have been developed to resolve each issue. Material procurements
18 are underway, and the required parts ordered. Work is underway to select contractors
19 to implement the identified solutions. NSPML is forecasting to address the OPGW and
20 OHSW issues by Q3 2020; however, the uncertainty caused by COVID-19 is affecting
21 delivery of replacement dampers to resolve the conductor damage issue and this will
22 likely mean that the damper installation work will take place in 2021. This is not
23 expected to pose an issue from a safety or reliability perspective. NSPML continues to
24 progress both warranty and insurance claims.
25

26 Work on the rerouting of a short section of the NL HVAC line near Southwest Brook
27 restarted in May 2020, which was required due to soil erosion on the hillside near the
28 base of multiple structures. All new structures and associated anchors have been
29 installed. The work was adjusted to accommodate COVID-19 protocols including
30 reduced crew size; however, the work is still expected to be completed in June.
31

1 The overhead transmission system continues to perform well through the second year
2 of operations with no significant reliability or downtime impacts experienced.

3
4 **2.8 Independent Engineer**

5
6 NSPML continues to be engaged with the Independent Engineer (IE) related to the
7 Operations phase of the Maritime Link, as per the Federal Loan Guarantee
8 requirements. Site visits will continue to occur routinely, and the IE will provide
9 annual confirmation to Canada and the Collateral Agent that the assets are being
10 operated and maintained appropriately.

11
12 **2.9 Status of Nalcor Project and Muskrat Falls**

13
14 Nalcor's latest project update, published at the end of May for construction activity to
15 the end of March, continues to indicate that overall construction of the Muskrat Falls
16 Project is greater than 99% completed¹.

17
18 The latest report from Nalcor, published on May 28, 2020 indicates the following
19 progress as of March 2020:

- 20
21 • Overall construction progress of all components of the Muskrat Falls Project at
22 the end of February was over 99% complete. Construction is considered
23 substantially complete over all Nalcor assets (LIL, LTA, Muskrat Falls
24 Generating Facility).

25
26 For the Muskrat Falls Hydroelectric Generating Facility, key recent activities include:

- 27
28 • Andritz Hydro Canada Inc. continued commissioning activities for Unit 1,
29 including continuing with wet commissioning. Minor issues arose during Unit
30 1 commission that were addressed by the contractor. The contractor advised
31 that replacement of the generator rotor rim keys was required on the Muskrat

¹ Muskrat Falls Project Monthly Report, March 2020, dated May 28, 2020, page 4, section 2.0.

1 units; and fabrication of the replacement keys was expedited by the contractor.
2 Replacement of the Unit 1 and Unit 2 generator rotor rim keys is now
3 complete.

- 4
5 • April's report from Nalcor indicated that Installation and testing work
6 continued to advance on Units 2, 3 and 4, and Cahill-Ganotec continued
7 mechanical completion and commissioning activities throughout the
8 Powerhouse.

9
10 **Labrador Transmission Assets (LTA)**

11
12 Turnover of the Churchill Falls and Muskrat Falls AC Switchyards to Nalcor Energy –
13 Power supply Operations has been completed.

14
15 **Labrador-Island Transmission Link (LIL)**

16
17 Activities for LIL continued and included:

- 18
19 • Continuation of HVDC Control System software development by GE Grid.
- 20 • Prior to suspension of activities in March due to COVID-19, work continued
21 on punch list items at the Forteau Point and Shoal Cove Transition
22 Compounds.

23
24 On March 17, 2020, Nalcor announced that it had temporarily paused construction
25 activities at the Muskrat Falls site in response to the COVID-19 pandemic. With the
26 Muskrat Falls and Soldiers Pond sites being placed into a care and maintenance mode
27 resulting from the COVID-19 pandemic, the NS Block will not commence mid-year as
28 previously forecasted. At present, Nalcor has projected at least a four-month delay in
29 its construction schedule as a result of the COVID-19 related delays. NSPML
30 continues to be engaged with Nalcor and is closely monitoring Nalcor's plans to safely
31 resume work on its Project sites in Muskrat Falls in June and mitigate the effects to
32 schedule, including consideration of the timing of the Nova Scotia Block. Nalcor has

1 expressed its desire to resume all work at site as soon as it is safe to do so for its
2 employees, contractors, and associated communities.

3
4 Prior to the pause in construction activities, Nalcor's commissioning work on the
5 synchronous condensers had identified material vibration and binding issues -
6 vibration identified during Unit 3 work and binding during Unit 1 and 2 work.
7 Investigation of the vibration issue is ongoing, however, the binding issues have been
8 resolved. GE Power started a phased remobilization of personnel to the Soldiers Pond
9 site on May 12, 2020. Synchronous Condenser Unit 2 balancing was ongoing in
10 March 2020 but was not complete before the site ramp down. GE Power re-
11 commenced commissioning activities on Synchronous Condenser Unit 2 on May 25,
12 2020 and is making this work a priority.

13
14 With respect to the HVDC Control System Software development, since the pause of
15 work at the construction sites in NL, Nalcor and its Contractor, GE Grid, have been
16 able to safely continue development. Testing of the interim Protections & Controls
17 (P&C) Software needed for operations and the first pass of the Factory Acceptance
18 Testing (FAT) for the software has been completed. FAT testing began on April 19
19 and concluded on May 1, 2020. Nalcor management, the Independent Third Parties
20 and the Independent Engineer participated in or observed FAT activities from remote
21 locations. Certain bugs were identified during FAT that require fixing and GE is in
22 the process of investigating and resolving those bugs. Nalcor is working closely with
23 the Independent Third Parties and GE to confirm the completion and corrective action
24 plan for any identified issues.

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26 **2.10 Status of Benefits to NS Power Customers**

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28 Customer benefits received to date are being reported by NS Power with its Quarterly
29 Fuel Adjustment Mechanism Report.

1 **3.0 UPDATED COST SUMMARY**

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As per Enerco U-31, section 6, the details below outline the DG3 forecasted costs.

Table 2 provides an updated cost summary for the Maritime Link, which includes actual costs incurred as of March 31, 2020 and forecasted total costs for the remainder of the Project’s construction activities.

Costs associated with trenching the submarine cables as noted in section 2.5 (and associated with transmission line corrective work noted in section 2.7) are reflected in this report.

NSPML continues to track and report all costs, actual and forecast, consistent with the methodologies used in the cost forecast represented in the Maritime Link Project Application. Capitalized project costs include fully allocated costs for the entire Project Management Team, including contractors, employees, executives dedicated to the project, and NS Power seconded employees at affiliate mark-up rates according to the Affiliate Code of Conduct. All costs provided are in Canadian dollars.

Actual AFUDC has been tracked and recorded monthly up to December 31, 2017 and totals approximately \$209 million as of that date, which is below the \$230 million amount estimated at the time of filing of NSPML’s Application.

1 **Table 2 Updated Cost Summary for the Maritime Link Project**

2

(000's of Canadian Dollars)	Actual Costs						Total Project to Date	Estimate to Completion	Total Project Estimate at Completion (A)
	2011-2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020			
Emera NL Project Management Costs	185,442	2,741	1,140	2,390	538	940	193,191	1,584	194,774
Nalcor Project Support Costs	16,216	15	12	(28)	-	-	16,215	(1)	16,214
Construction and Engineering Initiatives	1,324,162	944	1,212	14,493	4,763	(108)	1,345,466	7,271	1,352,737
Environmental Approval	18,239	33	54	19	52	-	18,397	39	18,436
Submarine and related	325,422	-	-	14,711	3,593	(648)	343,078	648	343,726
Converters, structures, and other ancillary equipment	547,113	275	422	133	317	50	548,310	2,508	550,818
AC and DC Transmission	433,388	636	736	(370)	801	490	435,681	4,076	439,757
Total	1,525,820	3,700	2,364	16,855	5,301	832	1,554,872	8,854	1,563,725
Contingency							-	-	-
Escalation								13,629	13,629
Grand Total	1,525,820	3,700	2,364	16,855	5,301	832	1,554,872	22,483	1,577,354

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Note: Total forecast for Project completion continues to be within \$1.577 M. No amount has been estimated in this forecast for the potential recovery of costs from third parties, which continue to be advanced. Any such recovery will be used to reduce the final cost.

1 **Total Actual Project Costs at end of Q3 2019 Compared to Previous Forecast**

2
3 The total actual project capital costs incurred during Q1 2020 of \$832,000 are detailed
4 below:

- 5
- 6 • Emera NL Project Management Costs of \$940,000: Project management costs
7 continue to be incurred as work advances relating to closing out of contracts,
8 procuring and managing punch list and corrective activities, and ensuring
9 appropriate documentation is in place for project closeout and regulatory
10 purposes. NSPML has segregated these capital costs from costs relating to
11 operating and maintenance activities and have expensed such operating and
12 maintenance costs accordingly.

 - 13
 - 14 • Submarine and related credit of \$648,000: This reflects an adjustment for final
15 costs associated with the 2019 subsea cable trenching work.

 - 16
 - 17 • Converters, structures, and other ancillary equipment of \$50,000: This reflects
18 the cost of NL Hydro and NS Power system upgrades and modifications, as
19 well as the procurement of material spares in both provinces.

 - 20
 - 21 • AC and DC Transmission of \$490,000: This reflects corrective transmission
22 activities.

23

24 The Project capital cost remains within budget.

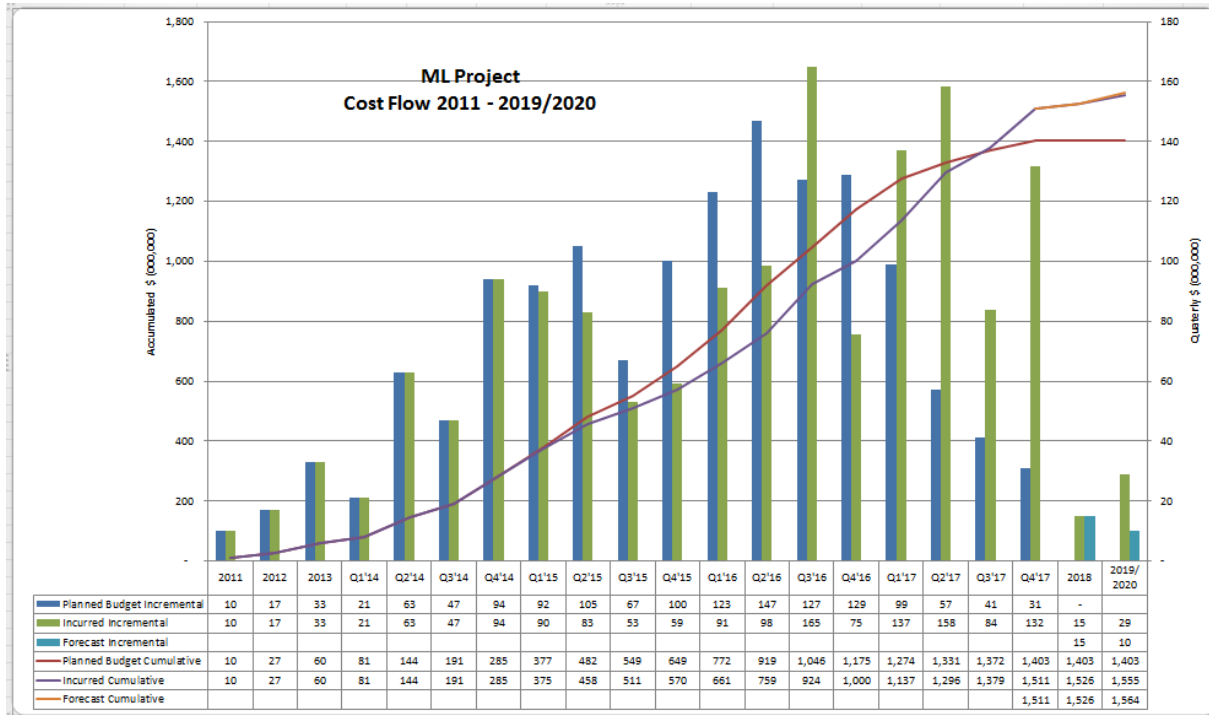
1 **4.0 COST FLOW**

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As per Enerco U-31, section 2.2, please refer to Table 3 below for the cost flow of the Maritime Link. This cost flow report for the base capital spending is now forecast at \$1.564 billion; a contingency draw was approved by the Company’s board of directors in Q1 2020. The total of the base capital spending, escalation, and contingency amounts remains at or below \$1.577 billion.

The remaining budget includes forecasted costs relating to transmission corrective activities, completion of documentation and close out of payments to contractors, as well as regulatory and environmental requirements relating to the construction aspect of the project. Certain of these costs are expected to take place in 2020 and will require further draws on remaining budgeted contingency/escalation balances. The total forecast of base capital spending, escalation, and contingency amounts for the project remains at or below \$1.577 billion.

1 **Table 3 Maritime Link Cost Flow**
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1 **5.0 INTERIM ASSESSMENT FINANCIAL UPDATE 2020**

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3

With the Maritime Link placed in-service on January 15, 2018, NSPML continues to

4

receive monthly cost recovery revenues from NS Power pursuant to the Board's

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November 27, 2019 Order. NSPML forecasts its 2020 operating and maintenance,

6

debt and equity financing costs to approximate the amounts budgeted for the year.

Operating Agreement Requirements Arising from the Formal Agreements

	Agreement	Parties	Description	Formal Agreement Source	Status
1.	Asset Interconnection Agreement (NL)	Emera, NLH	Interconnection of ML with the Island Interconnected System	ML-JDA, s. 2.1 (c)	Completed
2.	Multi-Party Pooling Agreement	Emera, NLH	NLH (SO) to have operational control of ML NLH AC Upgrades	ML-JDA, s. 2.1 (d)	Completed
3.	Transmission Operating Agreement (NL)	Emera, NLH	NLH (SO) to have operational control of ML NL HVdc Facilities	ML-JDA, s. 2.1 (e)	Completed
4.	Asset Interconnection Agreement (NS)	Emera, NSPI	Interconnection of ML with NS bulk electric transmission system	ML-JDA, s. 2.1 (f)(i)	Completed
5.	Transmission Operating Agreement (NS)	Emera, NSPI	NS SO to have general operational control of the ML	ML-JDA, s. 2.1 (f)(ii)	Completed
6.	ECA – Metering and Measuring Standards – Transmission Losses	NSPML, Nalcor	Metering and measuring standards used in the calculation of Transmission Losses	ECA, Schedule 3, s. 5	Completed
7.	Regulation Service Agreement	NS Power NLH	Nalcor’s provision of the Regulation Service with respect to the Nova Scotia Block for the Initial Term	ECA, Schedule 5	Expect completion prior to delivery of the NS Block
8.	Metering and Measuring Standards – NS NTQ transmission losses	NSPML, Nalcor	Metering and measuring standards used in calculation of NS –NTQ Path Peak and Off-Peak Hour transmission losses	NSTUA, Schedule 3, s. 6	Completed
9.	NB Back-up Capacity Agreement	Bayside Power L.P, Nalcor	Emera’s provision of backup Capacity to NB to Nalcor until March 31, 2021	NBTUA, s. 2.1(d)	No longer required given sale of Bayside to NB Power.
10.	IOA – ML Transmission Procedures	NSPI, NLH	Rules and practices applicable to administration of transmission service over the ML	IOA, Schedule D	Completed
11.	IOA – Reserve Sharing	NSPI, NLH	Sharing of energy and reserves between the Parties to improve Reliability	IOA, Schedule A	Completed
12.	IOA – Description of Interconnection Facilities	NSPI, NLH	Description of Interconnection Facilities for which each Party is responsible	IOA, Schedule B	Completed
13.	IOA – Functional Operating Relationship	NSPI, NLH	Various matters relating to operating relationship	IOA, Schedule C	Completed
14.	IOA – Operating	NSPI, NLH	IOC to develop “operating	IOA s.7.2 and s. 7.4(a)	Completed

	Procedures		procedures”		
15.	IOA – Schedule A1.0	NSPI, NLH	Parties to prepare a plan for NLH participation in Reliability Assessment Program (“RAP”)	IOA Schedule A1.0	Completed
16.	ML TSA – ML Scheduling Process	Emera and Nalcor	Scheduling process applicable to the provision of Firm Point-to-Point Transmission Service	MLTSAs, Schedule 2	Completed
17.	Amendments to Formal Agreements	Emera, Nalcor	Amendments to Formal Agreements required by Sanction Agreement	Sanction Agreement	Completed
18.	Energy Access Agreement	Emera, Nalcor	Commitments regarding access to market priced energy	Compliance Filing, Appendix A	Completed
19.	Balancing Service Agreement	Emera, Nalcor	Nalcor commitment to provide balancing services from generation sources in NL for 25 years.	Energy Access Agreement Term Sheet, s. 7(g) and Appendix 1	Completed
20.	Assignment of Transmission Rights under ML(E)TSA	Emera, Nalcor	Assignment of Transmission Rights	ML(E)TSA, s. 3.3 (h)	Expect completion in 2020
21.	Assignment of Energy Access Agreement	Emera, Nalcor, NSPI and Nalcor Energy Marketing (NEM)	Assignment/assumption of Nalcor’s rights and obligations to/by NEM	EAA s. 15.1 (a)	Expect completion in 2020
22.	Assignment of Nalcor Master Agreement (EAA Schedule 2)	Nalcor, NSPI and NEM	Assignment/assumption of Nalcor’s rights and obligations to/by NEM	Nalcor Master Agreement s. 10.5 (a)	Expect completion in 2020
23.	JOA-Joint Operating Committee (“JOC”)	Nalcor and NSPML	Establish/Operationalize JOC	JOA s. 3.1, 3.5	Completed
24.	NS Transmission Utilization Agreement	Nalcor and Emera	Status of Emera firm Point to Point Transmission Service	NSTUA s.s.2.2 (a)-(c)	Completed