



Newfoundland and Labrador Hydro  
Hydro Place, 500 Columbus Drive  
P.O. Box 12400, St. John's, NL  
Canada A1B 4K7  
t. 709.737.1400 | f. 709.737.1800  
nlhydro.com

May 29, 2026

Board of Commissioners of Public Utilities  
Prince Charles Building  
120 Torbay Road, P.O. Box 21040  
St. John's, NL A1A 5B2

Attention: Mike McNiven  
Board Secretary

**Re: Application for Approval of a Contribution in Aid of Construction – Line Extension and Upgrades for Maritime Resources**

Please find enclosed Newfoundland and Labrador Hydro's ("Hydro") application for approval of a Contribution in Aid of Construction ("CIAC") to be charged to Maritime Resources Corporation as a General Service Customer.

Hydro has received a request for service from Maritime Resources Corporation for its Hammerdown Gold Project mine site near King's Point. The provision of the requested service requires Hydro to replace approximately 1 km of single-phase line with three-phase line and to install a voltage regulator bank, as discussed in Schedule 1 of the enclosed application.

The calculated CIAC is \$590,889 before the addition of HST, calculated in part in accordance with Clause 5(e) of the CIAC Policy. This is illustrated in the detailed calculation of the CIAC contained as Schedule 2 to the application.

Should you have any questions, please contact the undersigned.

Yours truly,

**NEWFOUNDLAND AND LABRADOR HYDRO**

A handwritten signature in blue ink, appearing to read "S. Walsh", written over a horizontal line.

Shirley A. Walsh  
Senior Legal Counsel, Regulatory  
SAW/mc

Encl.

ecc:

**Board of Commissioners of Public Utilities**  
Jacqui H. Glynn  
Ryan Oake  
Board General

# Approval of a Contribution in Aid of Construction - Line Extension and Upgrades for Maritime Resources

May 29, 2026

An application to the Board of Commissioners of Public Utilities



**IN THE MATTER OF** the *Electrical Power Control Act, 1994*, SNL 1994, Chapter E-5.1 (“EPCA”) and the *Public Utilities Act*, RSNL 1990, Chapter P-47 (“Act”), and regulations thereunder; and

**IN THE MATTER OF** an application by Newfoundland and Labrador Hydro (“Hydro”) for approval of a contribution from Maritime Resources Corporation (“Maritime Resources”) towards the improvements necessary to provide its requested service.

**To: The Board of Commissioners of Public Utilities (“Board”)**

**THE APPLICATION OF HYDRO STATES THAT:**

**A. Background**

1. Hydro is a corporation continued and existing under the *Hydro Corporation Act, 2024*, is a public utility within the meaning of the *Act*, and is subject to the provisions of the *EPCA*.

**B. Application**

2. Hydro has received a request for service from Maritime Resources<sup>1</sup> to provide electrical service to the mine site of the Hammerdown Gold Project near King’s Point, Newfoundland (“Hammerdown Mine”).
3. The mine site is currently served by a single-phase distribution tap connected to the three-phase Feeder 1 of the King’s Point Distribution System, originating from Newfoundland Power Inc’s Springdale Substation. The customer has requested three-phase service, requiring the conversion of the approximately 1 km existing single-phase distribution tap to a three-phase tap.
4. Hydro completed a system impact study, which shows that the existing distribution system cannot accommodate the additional load associated with the customer’s request. The additional

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<sup>1</sup> Maritime Resources is wholly owned by New Found Gold Corp. (“New Found Gold”). <https://newfoundgold.ca/new-found-gold-and-maritime-resources-announce-clo-11655/>

load would create low voltage conditions that would violate Hydro's planning criteria, and will require the addition of a voltage regulator bank before the distribution tap that supplies power to the mine site. Schedule 1 to this application provides further details regarding the necessary capital expenditures to provide the requested service to the customer, which are estimated at \$619,477. As the capital cost is estimated to be less than \$750,000, prior approval of the capital expenditures by the Board is not required pursuant to section 41(3) of the *Public Utilities Act*.

5. When improvements or additions to Hydro's system are required to serve a single customer, pursuant to Hydro's *CIAC Policy*,<sup>2</sup> the customer requesting the service may be required to pay a portion of these costs.
6. Clause 5(e) of the *CIAC Policy* requires detailed cost estimates to be used in place of the applicable Cost per Metre in determining the cost of a line extension or upgrade when the cost of a line extension or upgrade is estimated to be greater than \$100,000. Clause 10(i) requires Hydro to apply to the Board for approval of CIACs for line extensions or upgrades involving CIACs where the costs of the line extension or upgrade calculated pursuant to Clause 5(a) are estimated to be greater than \$50,000.
7. As illustrated in the CIAC calculation contained in Schedule 2 to this application, the calculated amount for the upgrade of the single-phase line to a three-phase line is \$193,819 using the detailed cost estimate method. Including the costs associated with the voltage regulator and the estimated future operations and maintenance costs, and providing a load-based investment credit, results in an overall contribution of approximately \$590,889 before the addition of HST. Maritime Resources has agreed with the calculation of the CIAC; the CIAC Quote and Customer Quote Acceptance Form are included as Schedules 3 and 4. The Request for Service from Maritime Resources, and the Electrical Load List which revised that Request for Service, is attached as Schedule 5.
8. The proposed expenditures are necessary for Hydro to provide service and facilities to Maritime Resources' Hammerdown Mine, which services are reasonably safe and adequate and just and reasonable, as required pursuant to Section 37 of the *Act*.

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<sup>2</sup> Newfoundland and Labrador Hydro (2023). *Contribution in Aid of Construction Policy: Distribution Line Extensions and Upgrades to General Service Customers. ("CIAC Policy")*.  
<https://nlhydro.com/wp-content/uploads/2023/02/CIAC-for-Website-January-26-2023.pdf>.

9. The proposed CIAC is necessary to ensure that Hydro's investment in the distribution system, required to provide service to Maritime Resources, is compensatory over the useful life of the investments and will not be to the detriment of Hydro's other customers.

**C. Newfoundland and Labrador Hydro's Request**

10. Hydro requests that the Board make an Order pursuant to Section 41(5) of the *Act*, approving the contribution by Maritime Resources in the amount of \$590,889 excluding HST.

**D. Communications**

11. Communications with respect to this Application should be forwarded to Shirley A. Walsh, Senior Legal Counsel, Regulatory for Hydro.

**DATED** at St. John's in the province of Newfoundland and Labrador on this 29th day of May 2026.

**NEWFOUNDLAND AND LABRADOR HYDRO**



Shirley A. Walsh  
Counsel for the Applicant  
Newfoundland and Labrador Hydro  
500 Columbus Drive, P.O. Box 12400  
St. John's, NL A1B 4K7  
Telephone: (709) 685-4973

# Schedule 1

Customer Interconnection – King’s Point (2026)



## Contents

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## 1 1.0 Introduction

2 Newfoundland and Labrador Hydro ("Hydro") owns and operates electricity distribution systems in the  
3 rural communities it serves. These systems typically consist of wood pole distribution feeders that  
4 supply power from a terminal station to the individual customer connections throughout a community.

5 Hydro received a service request from Maritime Resources Corporation<sup>1</sup> to provide three-phase  
6 electrical service to the mine site of the Hammerdown Gold Project near King's Point ("Hammerdown  
7 Mine"). The mine site is currently served by a single-phase distribution tap off of the three-phase Feeder  
8 1 of the King's Point Distribution System ("KP1"), originating from Newfoundland Power Inc's  
9 ("Newfoundland Power") Springdale Substation.<sup>2</sup> The existing distribution system cannot accommodate  
10 the additional load associated with this request. To support the additional load associated with this  
11 request, upgrades to the KP1 feeder will be required including a conversion of a distribution tap from  
12 single-phase to three-phase, and the installation of a voltage regulator.

13 Hydro plans to begin this project in 2026. The estimated completion over 3 years has an estimated cost  
14 of \$619,477.<sup>3</sup>

## 15 2.0 Project Description

16 The section of the three-phase KP1 feeder that will support the customer interconnection is currently a  
17 single-phase distribution tap south of King's Point, off Highway 391. The proposed connection will  
18 increase the forecasted peak load on KP1 by approximately 1.7 MW. As requested by the Customer, the  
19 approximately 1 km existing single-phase distribution tap must be converted to three-phase to  
20 accommodate the requested service.

21 Hydro completed a system impact study to assess the impact of the additional requested load on the  
22 distribution system. The study determined that the KP1 feeder cannot accommodate additional load  
23 associated with the request, as it would create low voltage conditions that violate Hydro's planning

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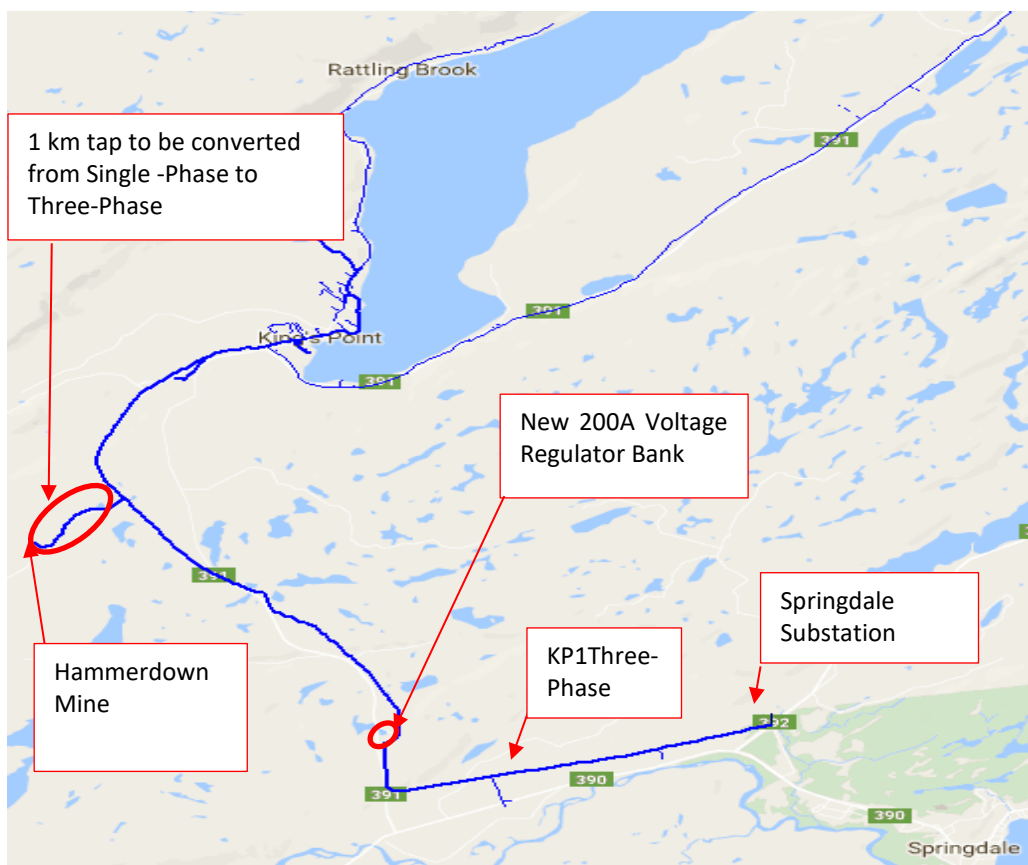
<sup>1</sup> Maritime Resources Corporation ("Maritime Resources") is wholly owned by New Found Gold Corp. ("New Found Gold").  
<https://newfoundgold.ca/new-found-gold-and-maritime-resources-announce-clo-11655/>

<sup>2</sup> Due to system infrastructure and routing, there are instances where Hydro's distribution lines are connected to Newfoundland Power equipment, and vice versa.

<sup>3</sup> As the capital cost is estimated to be less than \$750,000, prior approval of the capital expenditures by the Board of Commissioners of Public Utilities is not required pursuant to section 41(3) of the *Public Utilities Act*

1 criteria.<sup>4</sup> To mitigate these voltage issues, a voltage regulator is needed before the tap to supply power  
2 to the mine site. Two technically feasible alternatives were considered; the addition of a new voltage  
3 regulator to the system and the reconductoring of the main trunk of the distribution feeder. The analysis  
4 determined that reconductoring would incur considerably higher costs; therefore, the voltage regulator  
5 option was identified as the most cost-effective solution.

6 Figure 1 shows the layout of the KP1 feeder, the distribution tap, the location of the new voltage  
7 regulator bank, and the Hammerdown Mine site location.



**Figure 1: Proposed Hammerdown Mine Scope of Work**

<sup>4</sup> Hydro's distribution planning criteria are a set of criterions that ensures an adequate supply of power to customers served on Hydro's distribution systems. Hydro's extreme low voltage criteria is defined as system voltages lower than 112 V on a 120 V base.

1 **3.0 Scope of Work**

2 Hydro has determined that the work for this project, beginning in 2026, would be completed by 2028.

3 The work includes:

- 4 • Installing a 200A three-phase voltage regulator bank at the recommended location on the KP1
- 5 feeder; and
- 6 • Upgrading approximately 1 km of the existing single-phase distribution tap to three-phase to
- 7 supply the Hammerdown Mine.

8 **3.1 Project Budget**

9 The estimate for this Project is shown in Table 1.

**Table 1: Project Estimate (\$000)<sup>5</sup>**

<b>Project Cost</b>	<b>2026</b>	<b>2027</b>	<b>Beyond</b>	<b>Total</b>
Material Supply	195.2	0.0	66.6	<b>261.8</b>
Labour	4.4	0.0	79.3	<b>83.7</b>
Consultant	0.0	0.0	0.0	<b>0.0</b>
Contract Work	0.0	0.0	101.9	<b>101.9</b>
Other Direct Costs	0.0	0.0	3.6	<b>3.6</b>
Interest and Escalation	16.5	12.6	49.2	<b>78.3</b>
Contingency	39.9	0.0	50.3	<b>90.2</b>
<b>Total</b>	<b>256.1</b>	<b>12.6</b>	<b>350.8</b>	<b>619.5</b>

10 **3.2 Project Schedule**

11 The schedule for this project is shown in Table 2.

<sup>5</sup> Numbers may not add due to rounding.

Table 2: Project Schedule

Activity	Start Date	End Date
Design & Planning: <sup>6</sup>		
Design	July 2026	August 2026
Field Assessment & Layout	April 2028	May 2028
Procurement:		
Materials order (Includes Long Lead) <sup>7</sup>	August 2026	January 2028
Construction:		
Construction	May 2028	May 2028
Commissioning:		
Equipment Commissioning	June 2028	June 2028
Closeout:		
Complete Closeout Documentation	July 2028	July 2028

1 **4.0 Conclusion**

2 The project requires upgrading approximately 1 km of single-phase distribution tap to three-phase to  
 3 meet customer requirements for three-phase power. Hydro also completed a system impact study for  
 4 the requested service that indicates the KP1 feeder is unable to support the additional load associated  
 5 with the new service request without causing low voltage conditions, violating Hydro’s distribution  
 6 planning criteria. Installation of a new voltage regulator bank is the lowest cost, technically feasible  
 7 option to resolve the voltage deficiencies.

8 This project is being driven by load growth on the system prompted by a single customer. The project  
 9 has an estimated capital cost of \$619,477 with scheduled project completion in 2028. The customer has  
 10 agreed to contribute approximately \$590,889, excluding HST, in the form of a contribution in aid of  
 11 construction (“CIAC”), calculated pursuant to section 5(e) of the CIAC Policy for General Service  
 12 Customers. The calculation, including the details of the load-based investment credit to the customer, is  
 13 included in Schedule 2.

<sup>6</sup> Preliminary Engineering/Planning done as part of front-end engineering design.

<sup>7</sup> At time of filing the lead time for a voltage regulator of this size is 16 months.

# Schedule 2

CIAC Calculation for Maritime Resources, Hammerdown  
Gold Mine



**2025 CIAC Calculation for Maritime Resources, Hammerdown Gold Mine**

(using detailed estimated construction cost) File # 448.85.50/034.2103202

Detailed Construction cost	\$193,819.00	Cost for upgrading the 1-Phase line to 3-Phase
	\$425,658.00	Voltage Regulator-Updated in-stock cost
O&M factor	7.00%	From 2025 CIAC Costing Manual
O&M amount	\$43,363.39	
Const Cost + O&M	\$662,840.39	
Joint use credit	\$0.00	N/A
Less Company Investment	\$0.00	N/A
Less Load Based Investment	\$71,951.20	1632kVA for 5 years of production
	\$590,889.19	
HST 15%	\$88,633.38	
Total CIAC	\$679,522.57	

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Note : Detailed construction cost to upgrade 817m of single phase distribution line to three phase along with voltage regulator. Voltage regulator is required in order to accommodate customer's estimated load.

- Total estimated service life is 10 years (2 years commissioning, 5 years production, 3 years de-commissioning).
- Load Based Investment: Reduction of 2.5% for each year operation is less than fixed life (37.6 yrs)
- [37.6-5=32.6yrs] [32.6\*2.5%=81.50%] [1642kVA-10kVA=**1632kVA** (to be used for Plant Support Calc.)]
- [1632\*235.00\$/kVA=\$383,520] Load Based Investment for Permanent Service
- [\$383,520\*81.50%=\$312,568.80] Reduction of Load Base Credit due to project life (5 years).
- [\$383,520-\$312,568.80=**\$71,951.20**] -Net Load Based Investment
- No Company Investment credit or Joint-Use credit is applicable

# Schedule 3

Load Base Credit Letter – Maritime Resources





Newfoundland and Labrador Hydro  
Hydro Place, 500 Columbus Drive  
P.O. Box 12400, St. John's, NL  
Canada A1B 4K7  
t. 709.737.1400 | f. 709.737.1800  
nlhydro.com

March 2, 2026

Newfound Gold Corp.  
Jared Saunders  
20 Adelaide Street East  
Suite 603  
Toronto, ON M5C 2T6

**All information contained in this letter is subject to the approval of the Board of Commissioners of Public Utilities. All calculations are subject to change, based on the ruling of this Board.**

Dear Jared Saunders:

Thank you for your inquiry on the availability and cost of upgrading the single-phase distribution line to three-phase, to further service the Hammerdown Mine located within the King's Point area. According to the Contribution in Aid of Construction (CIAC) Policy approved by the Board of Commissioners of Public Utilities, general service customers are sometimes required to pay a portion of the construction cost of the line extension. The amount of the charge depends on both the length of the extension required and the energy requirements of the customer.

Two years following the connection of the electrical service the CIAC will be reviewed to determine the accuracy of the estimated load requirements provided to us. It is therefore important that the original load information be as accurate as possible. The CIAC will be recalculated using the actual load data for the 12 months preceding the review and if there is a variation of more than \$100.00 from the original CIAC, the difference will be applied to the electricity account for this service as either a credit, or an additional charge.

A Hydro representative has reviewed your request and has developed a design for the line extension. The cost to construct the distribution infrastructure to supply your facility is **\$662,840.39 + HST**. Based on your facility requiring a three phase service with an estimated maximum demand of **1632kVA**, Hydro will provide an additional investment credit of **\$71,951.20** towards the upgrade. Your contribution toward the construction of the upgrade (CIAC) is **\$590,889.19 + \$88,633.38 HST** totaling **\$679,522.57**. If the above load data is not accurate, please contact us before April 2, 2026 with the correct information as your CIAC requirement may be adjusted as a result of the two-year review.

Jared Saunders  
Newfound Gold Corp  
March 2, 2026

Page 2 of 3

Your CIAC Reference Number for the above quote is **2103202** and is valid until September 2, 2026. After this date, a new quotation must be calculated to reflect possible changes in labor and material costs. Hydro reserves the right to make adjustments within this six (6) month period if errors are discovered in the calculation of this estimate, in which case you will be notified immediately of the change.

This CIAC will require Public Utility Board (PUB) approval. If you wish to proceed with the request, please sign and return the Quote so that Hydro may proceed with preparation of an application to the PUB for approval of this project.

If you wish to proceed with the request, please have the following completed and returned. Hydro will not proceed with construction of the line extension until the following is received:

- **A completed and duly signed copy of the enclosed Quote Acceptance Form.**
- **Payment of the CIAC.**

Construction of your line extension, and your entitlement to any refunds or partial refunds of your CIAC, are subject to the following conditions:

1. Before construction begins, Hydro requires standard easement rights for any portion of the line that will be constructed over private property. This ensures that Hydro has access to the line and equipment should the need arise. Hydro will arrange for any necessary easements. If however, easements cannot be obtained for the proposed route, an alternate route will be determined and a corresponding CIAC will be calculated.

Please note: it may take 12 months to obtain easements from the Provincial Crown Lands Department if the line extension involves Crown Land. Permission for line construction and related work near bodies of water will take considerably longer due to stringent environmental regulations.

2. Should additional customers connect to the line extension within 10 years from the date of its construction, you may be entitled to a refund. Hydro will calculate the refund in accordance with established guidelines as approved by the Board of Commissioners of Public Utilities.
3. Hydro shall make all reasonable efforts to identify when a CIAC refund is required due to additional customers connecting to the line extension and to ensure the appropriate refund is paid within 90 days of any new connection. If your refund is not processed within 90 days of the connection of another

Jared Saunders  
Newfound Gold Corp  
March 2, 2026

Page 3 of 3

- customer, the refund amount will earn interest for each day past the 90-day deadline.
4. Hydro retains legal title to the line and may connect other customers to it at any time.
  5. Hydro is responsible for the maintenance of the line and for its eventual replacement.

Newfoundland and Labrador Hydro looks forward to serving you. If you require additional information regarding your CIAC, please call toll-free at 1-888-737-1296 between 8:30 a.m. and 4:00 p.m., Monday to Friday.

Sincerely yours,  
**NEWFOUNDLAND & LABRADOR HYDRO**



Kristy O'Rielly  
Cust. Services Technologist

Laura Walsh  
Manager Customer Service & Billing

Enclosures

H.S.T Registration #121394928RT0001

c.c. S. Stanford, NLH – Bishop's Falls  
M. LaVallee, NLH – Bishop's Falls  
File: 448.85.50/034.2103202

# Schedule 4

Quote Acceptance Form – Maritime Resources





Newfoundland and Labrador Hydro  
 Hydro Place, 500 Columbus Drive  
 P.O. Box 12400, St. John's, NL  
 Canada A1B 4K7  
 t. 709.737.1400 | f. 709.737.1800  
 nlhydro.com

## CIAC Quote Acceptance - General Service

All rates and fees charged for electric service, and the Rules and Regulations governing the provision of that service, are approved by the Rules & Regulations governing the provision of that service, are approved by the Newfoundland and Labrador Board of Commissioners of Public Utilities.

The undersigned ("the Customer") requests Newfoundland and Labrador Hydro (the Company) to provide electrical service at the location listed below.

CIAC Reference No:	<u>2103202</u>		
Customer Name:	<u>Maritime Resources</u>	Current Account No:	<u>00084473</u>
Consultants Name (if applicable):	<u></u>		
Property Location:	<u>Hammerdown Project</u>		
Present Mailing Address:	<u></u>		
City/Town:	<u>King's Point</u>	Province:	<u>NL</u>
		Postal Code:	<u></u>
Present Street Address:	<u></u>		City/Town:
	<u></u>		
Home Phone No:	<u></u>		Work Phone No:
Customer's Signature:	<u>Robert Assabgui</u>		Date:
			<u>March 4, 2026</u>
Customer's Title:	<u>Chief Operating Officer</u>	Occupation:	<u>Mining Engineer</u>

The basic level of company investment provided to all new general service customers is 85 meters of three phase line extension. Additional company investment may be provided depending on the customer's load requirements and resulting revenue to Newfoundland and Labrador Hydro. This additional investment will be based on the estimated demand and energy consumption derived from the load information provided by you.

All CIACs are reviewed after two years from the date of construction of the line extension to determine the accuracy of load information used in the CIAC calculation process. Variations in recalculated CIAC amounts of \$100 or greater will be applied to the customer's account (the revised amount may result in either a refund or an addition charge).

Please indicate whether you wish to accept any additional load based company investment at this time or whether you would prefer to await the results of our two year review:

I wish to accept the additional load based company investment now. I acknowledge I will be subject to a 2 year review and any variance of \$100 or greater will be charged / credited to my account.

I do not wish to accept the additional load based company investment at this time. I would prefer to await the results of the two year review.

By accepting the additional load based company investment now, I agree to pay to the Company a contribution in aid of construction of \$ \$679,522.57 (including HST) for provision of that service. By declining to accept the additional load based company investment now, I agree to pay to the Company a contribution in aid of construction of \$ 762,266.45 (including HST) for provision of that service.

# Schedule 5

Hammerdown Request for Service





## REQUEST FOR SERVICE GENERAL INFORMATION

### CUSTOMER INFORMATION

Name	Maritime Resources Corp., Peter Goudie, Operations Manager
Current Address	2 Industrial Park, Springdale, NL A0J1T0
Service Address	Hwy 391, near King's Point, NL
Phone Number	709-631-9952

### GENERAL SERVICE ONLY

1.	Nature of business: Mining and exploration	
2.	Location of Premises:	Yes                      No
	Public Road	<input type="checkbox"/> <input checked="" type="checkbox"/>
	Within Community	<input type="checkbox"/> <input checked="" type="checkbox"/>
	Municipal or Other Plan	<input type="checkbox"/> <input checked="" type="checkbox"/>
	Permanent Service	<input checked="" type="checkbox"/> <input type="checkbox"/>
3.	Single Phase Service	<input type="checkbox"/> <input checked="" type="checkbox"/>
	Three Phase Service	<input checked="" type="checkbox"/> <input type="checkbox"/>
4.	Service Voltage: 600 V	
5.	Service Size in Amps: 1,500 Service Conductor Size (mcm): 4x3C 500MCM    Conductor Type: <input checked="" type="checkbox"/> Cu, <input type="checkbox"/> Al. Lugs Required: <input checked="" type="checkbox"/> Single, <input type="checkbox"/> Double	
6.	Please provide breakdown of connected load (attach separate sheet if more room required).	
	<u>1 Phase</u>	<u>3 Phase</u>
	Lighting (kW)	_____ <u>50</u>
	Heating (kW)	_____ <u>210</u>
	Miscellaneous (kW)	_____ <u>150</u>
	Motors (kW)	_____ <u>760</u>
	Total (kW)	_____ <u>1170</u>
7.	Estimated Peak Demand: 936 kW (Total kW of load <i>expected</i> to be on at the same time)	
8.	Estimated annual load factor: Or estimated annual consumption (kWh) 4,212,947	
9.	If applicable, the expected service life: At least 10 years	
10.	A copy of the customer's electrical drawings. Attached	
11.	A copy of the customer's site plan. Attached	
12.	Date service required (ready for connection).	
13.	Primary metering requested (extra charges may apply). Yes (subject to the customer supplying and maintaining all distribution facilities beyond the point of supply)	
14.	Temporary / Construction power requested (extra charges may apply). Yes	

Note: Load and Demand Information superseded by attached Electrical Load List

Customer/Electrician signature verifies that his information is accurate and understands information is subject to a 2 year review:

Prepared by: Peter Goudie Date: 4-30-25



# Electrical Load List - User Guide

## Definitions

- 1) Unit or Nameplate Power Rating  
Nameplate power rating of the installed electrical equipment, nominally this is the equipment output power. This is specified or selected by process, mechanical or building services design
- 2) Installed Power (kW)  
This is the result of the number of units multiplied by the nameplate ratings of all installed electrical equipment of the particular row type.
- 3) Operation Type  
(C) **Continuous**: Operates continuously under normal conditions (UF = 0.8 - 1.0)  
(I) **Intermittent**: Operates intermittently under normal conditions (UF = 0.1 - 0.8)  
(S) **Standby**: Installed, but not operating under normal conditions (UF = 0.0)  
This is based on the definitions as provided in the Canadian Electrical Code
- 4) Demand Factor  
Actual required equipment power demand divided by the nameplate power. Most equipment does not operate at 100% full load rating of the motor.
- 5) Motor / Equipment Efficiency  
Electrical efficiency of equipment based on typical or manufacturer supplied data.
- 6) Utilization Factor (UF)  
Mathematical factor as assigned based on Operation Type - result is an assigned operating time where,  $C = 1$  (100% operating time),  
 $I = 0.1-0.8$  (10-80% operating time) or  
 $S = 0$  (Standby or nominal 0% operating time).  
May also be a value as determined by process, mechanical, or building services in which case it will be given another non-typical value.
- 7) Power Factor (PF)  
Ratio of real (active) power to apparent power  
Power Factor of motors to be based on typical or manufacturer supplied data.
- 8) Peak Load (Power in kW)  
Maximum or Peak Power Demand = [(Installed Power x Demand Factor) / Drive Efficiency]
- 9) Average Power (Power in kW)  
Average Power Demand = [(Installed Power x Demand Factor x Utilization Factor) / Drive Efficiency]
- 10) Diversity Factor  
= Sum of Individual Max Demand/ Max Demand on Main Substation  
*In a distribution network, if connected supply is from users to feeders, use 1.15 as the diversity factor.*
- 11) Operation  
= Number of operating hours per year

NOTE: If no data available; assume demand factor, utilization factor, efficiency and power factor shall be as follows:

- Demand Factor: 0.8
- Utilization Factor: 0.8
- Efficiency: Variable by motor size
- Power factor: 0.85
- Diversity Factor: 1.15



NEWFOUND GOLD																																	
Electrical Load List - Hammerdown Mill Expansion Project Overflow Scoping Study																																	
WBS	Equipment Number	Equipment Type	Sequential #	Load Description	Qty	Voltage (V)	Mechanical HP (From MEL)	Mechanical kW (From MEL)	Namplate HP	Namplate kW	Installed Power (kW)	Absorbed Power (kW)	Starter Type	Operation Type (C/F/S)	Emergency Power (Y/N)	Demand Factor	Motor/Equipment Efficiency	Utilization Factor	Motor/Equipment Power Factor	Operating Peak Load Factor	Peak Load (kW)	Peak Load (kVA)	Peak Load (MVA)	Load Factor	Average Load (kW)	Average Load (kVA)	Average Load (MVA)	Annual Load (MWh)	Energy/Month (MWh)	Peak Emergency Demand (MVA)	Assigned MCC Contingency	Remarks / Basis of the estimate	
MHS6203				GRUSHING	1	600	30	8	10	8	8.0	6.9	DOL	C		0.85	0.92	0.90	0.77	1.00	7.42	6.14	9.63	0.85	6.67	5.53	6.67					201400	
MHS6203				Under Screen / Fine Conveyor																													201400
MHS6203				Screen Drive	1	600	40	30	40	30	30.0	25.8	DOL	C		0.85	0.94	0.90	0.80	1.00	27.10	23.32	33.87	0.85	24.89	20.29	24.89						201400
MHS6203				Stacking Conveyor #1	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #2	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #3	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #4	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #5	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #6	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #7	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #8	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #9	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #10	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #11	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #12	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #13	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #14	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #15	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #16	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #17	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #18	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #19	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #20	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #21	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #22	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #23	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #24	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #25	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #26	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #27	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #28	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #29	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #30	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #31	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #32	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #33	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #34	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #35	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #36	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #37	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37	15.02	21.71	0.85	15.68	11.72	15.68						201400
MHS6203				Stacking Conveyor #38	1	600	25	19	25	19	19.0	16.3	DOL	C		0.85	0.93	0.90	0.80	1.00	17.37												

# Affidavit



**IN THE MATTER OF** the *Electrical Power Control Act, 1994*, SNL 1994, Chapter E-5.1 (“EPCA”) and the *Public Utilities Act*, RSNL 1990, Chapter P-47 (“Act”), and regulations thereunder; and

**IN THE MATTER OF** an application by Newfoundland and Labrador Hydro (“Hydro”) for approval of a contribution from Maritime Resources Corporation (“Maritime Resources”) towards the improvements necessary to provide its requested service.

### AFFIDAVIT

I, Paul Dillon, of St. John’s in the province of Newfoundland and Labrador, make oath and say as follows:

- 1) I am Director of Engineering, Engineering and Technology, Newfoundland and Labrador Hydro, the applicant named in the attached application.
- 2) I have read and understand the foregoing application.
- 3) To the best of my knowledge, information, and belief, all of the matters, facts, and things set out in this application are true.

**SWORN** at St. John’s in the province of Newfoundland and Labrador this 29th day of May 2026, before me:



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Barrister, Newfoundland and Labrador  
Witnessed through the use of audio-visual technology  
in accordance with the *Commissioners for Oaths Act*  
and *Commissioners for Oaths Regulations*



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Paul Dillon