



February 8, 2023

Ontario Energy Board

P.O. Box 2319,
2300 Yonge Street, 27th Floor
Toronto, ON M4P 1E4

Attention: Registrar

Dear Ms. Marconi,

**Re: Transmission Infrastructure Partnerships 1 Limited - Electricity Transmission
Licence Application**

We are counsel to Transmission Infrastructure Partnerships 1 Limited (the "**Applicant**" or "**TIP-1**"), which hereby applies to the Ontario Energy Board (the "**Board**") for an electricity transmission licence (the "**Transmission Licence**") pursuant to ss. 57(b) and 60 of the *Ontario Energy Board Act, 1998* (the "**OEB Act**"). TIP-1 is jointly and equally owned by Taykwa Tagamou Nation ("**TTN**") and Transmission Infrastructure Partnerships Limited ("**TIP**"). TIP is jointly and equally owned by Vires Investment Partners, Inc. ("**VPI**") and ATX-TIP Holdings, Inc. ("**ATX-TIP**"), a Canadian subsidiary of Ameren Transmission Company LLC ("**ATX**"). ATX is an operating subsidiary of Ameren Corporation. Ameren Corporation through its subsidiaries (hereinafter collectively "**Ameren**") owns and operates extensive transmission infrastructure across North America. The Applicant, through the committed resources of its shareholders and their corporate parents and affiliates, has extensive and proven, technical and financial expertise to undertake the proposed transmission activity in Ontario.

The Applicant is seeking an order granting it the Transmission Licence for a proposed forty-two (42) km, 230 kV electricity transmission line that supports the energy needs of the Crawford nickel mine, which is owned by the Canada Nickel Company ("**CNC**") and located north of Timmins, Ontario (the "**Crawford Mine**"). The Applicant intends to apply to the Board for leave to construct the proposed line at a later date, following the grant of the requested Transmission License. The Applicant, through CNC (as the customer), has a conditional approval from the Independent Electricity System Operator ("**IESO**") for the proposed transmission project. The SIA report is attached as **Schedule 'C'**. In addition, the Applicant has participated in the IESO planning processes and believes the transmission facilities will be included in future plans.

The TIP-1 proposed 230 kV transmission line is intended to run between a switching station to be constructed at the Crawford Mine by TIP-1 and the Porcupine Hydro One Network Inc. substation in Timmins, Ontario. TIP-1 has completed a Transmission Services Agreement with CNC in order to support the related increase in electricity demand. The TIP-1 proposed transmission line is consistent with the IESO's regional plan for Northeast Ontario and all normal IESO procedures and requirements. If approved, the TIP-1 proposed transmission line will be an integral component of the Crawford Mine and has been identified as necessary for the mine's intended net zero carbon operations, which will include a fleet of electric-powered, heavy mining vehicles, electric mining equipment, as well as electric-powered milling operations. The TIP-1

proposed line is also necessary to secure the *delivery* of power to the mine in an area where there is a paucity of existing and reliable electricity distribution infrastructure.

TIP-1 and the TIP-1 proposed transmission project will address a number of significant needs in the province and Northeast Ontario that support TIP-1's application for the Transmission Licence (as more fully discussed in the response to Item 17 of the Application) including:

- **Indigenous Reconciliation and Resurgence.** TTN is an equal majority equity owner and shareholder in TIP-1. It is committed to ensuring a high degree of First Nations employment, contracting, procurement, support, and involvement in the Applicant company as well as in the proposed transmission project.
- **Critical Mineral Supply Supporting Electrification and Energy Transition.** TIP-1 and the TIP-1 transmission line will support the much-needed infrastructure and electrification of the CNC Crawford Mine and the mining of nickel, a critical mineral for Ontario's electrification, and the electric battery, automotive, transportation, and energy storage sectors.
- **Needed Electricity Infrastructure.** The need for new and reliable electricity transmission infrastructure in this part of the province is supported by both: (i) the IESO, through its recent regional planning, procedures, and studies, and (ii) the Board, through numerous decisions confirming the very poor electricity reliability in certain northern and Indigenous communities across Northern Ontario.¹
- **Sustainable Development of Northern Ontario.** TIP-1 and the proposed transmission project support: (i) the sustainable development of Northern Ontario, (ii) employment in Northern Ontario, and (iii) Ontario's transition to a lower carbon economy through very low emissions electricity infrastructure in Northern Ontario, an area where many communities are currently reliant on higher emissions sources of energy.

We request that the Board grant the Transmission Licence in order to support TIP-1 in its further development and ongoing financing of the proposed transmission line and supporting electricity infrastructure to service the Crawford Mine in an expeditious manner. Enclosed is the Applicant's completed application form, together with all attachments (the "**Application**"), as well as payment of the applicable filing fee. The Applicant is not currently seeking any exemptions from any licence or code requirements in connection with the Application, but it reserves the right to do so.

1. The Applicant

The Applicant is a single purpose corporation registered under the laws of Ontario. TTN and TIP each own an equal majority of the equity and shares of the Applicant. TTN is a Cree First Nations band government and is designated as Band Number 145. It is located in the Cochrane District in Ontario and is represented by its Chief and Council. TIP is a corporation pursuant to the laws of Ontario. ATX-TIP and VPI each hold 50% of TIP. A comprehensive corporate organization chart is set out in the Application.

¹ EB-2016-0160; EB-2017-0049; EB-2019-0082; EB-2021-0110

2. The Proposed Transmission Project

The Applicant is developing and intends to construct, own and operate new electricity transmission facilities in the vicinity of Crawford, Ontario, which is approximately 40 kilometres north of Timmins, Ontario.

In particular, the Applicant plans to build:

- a new switching station in the vicinity of Crawford, Ontario (the “**Switching Station**”); and
- a new 230 kV transmission line, which will be approximately 42 kilometres in length, and which will connect the Switching Station with the Porcupine Hydro One Network Inc. substation in Timmins, Ontario (the “**Transmission Line**”).

The Switching Station and Transmission Line (collectively, the “**Transmission Project**”) will satisfy the significant energy needs of the Crawford Mine. The Crawford Mine intends to operate on a net zero carbon basis by electrifying many significant (and traditionally fossil-fueled) elements of its operations.

The proposed Transmission Project will also provide opportunities for the development of critical mineral supply, electrification, and energy transition in a lower carbon economy.

The development, construction, and operation of the proposed Transmission Project will also provide significant employment and facilitate billions of dollars of economic activity in Northern Ontario. The Crawford Mine is expected to employ approximately 1,000 people, and construction of the Transmission Project will employ approximately 100 people at the time of peak construction.

TIP-1 is focused on facilitating best practices in Indigenous employment and procurement, consistent with TTN’s priorities and role in Indigenous economic resurgence and reconciliation. TTN and TIP have formalized these objectives in their Unanimous Shareholder Agreement,² which, among other things, supports the Applicant by bringing together (i) TTN’s Indigenous leadership and experience in the economic development of Northern Ontario with (ii) TIP’s (and Ameren’s) proven financial and technical expertise and experience in electricity transmission projects. This strong combination will allow the Applicant to pursue the TIP-1 Transmission Project and realize its many local, regional, and provincial benefits.

3. Technical and Financial Expertise, Experience and Resources

The Applicant brings a high level of proven technical and financial expertise and experience in electricity transmission and other resources to the proposed TIP-1 project through its shareholders and corporate parents.

² The Unanimous Shareholder Agreement will be produced upon request as part of this Application, subject to requests for confidential treatment.

The strength of the Applicant's proposal arises in part from its leadership team. Each of the Applicant's directors brings deep experience that is relevant to the proposed electricity Transmission Project and will support the project's success:

- Bruce Archibald is Chair of the TIP-1 board of directors as well as a director of the Applicant. He has been Chief of TTN since 2016, following 10 years as a member of TTN's Council. Bruce held line and management positions in the energy and forestry industries for many years before dedicating himself to public service.
- Shawn Schukar is a director of the Applicant and is the Chairman and President of Ameren Transmission Company, where he leads the development of new transmission. He has more than 30 years of experience in the utility industry, including overseeing network, distribution and generation connections, along with engineering, regulatory and risk management.
- Vincent Buron is the Applicant's President and Managing Director. He has over 25 years of electricity industry experience. He was the Chief Operating Officer of Brookfield Power (as it was then known) and a Managing Director at Hydro-Quebec with responsibilities for new project development. He has led efforts to secure billions of dollars in financing for the organization of Indigenous-led projects over the course of his career, including in his capacity as Chief Executive Officer of Qikiqtaaluk Corporation.

The Applicant brings to bear the extensive electricity transmission expertise of its shareholders and their corporate parents and affiliates. A detailed corporate organization chart is provided in the Application, with the key attributes of the relevant and engaged corporate entities summarized below:

- TTN brings extensive experience and expertise from its role in the early development of this project. It undertook all aspects of the early project development work for the Transmission Project. TTN also benefits from its unique relationship with its lands and the geographic area. The Transmission Project's corridor is located on TTN's traditional territory, providing TTN with, among other things, unique expertise relevant to any potential environmental impacts of the project, as well as enhanced capabilities to work with potentially affected land users/rights holders, communities, and others that may be affected by the project.
- TIP is equally owned between VPI and ATX-TIP, a Canadian subsidiary of ATX. TIP has formed several project joint venture companies with First Nations members to develop, construct, own and operate transmission projects in Canada. TIP benefits from the extensive experience of both parent companies and their affiliates in the fields of large-scale electricity transmission infrastructure ventures, significant energy and transmission projects, and partnerships with Indigenous communities.
- Ameren Corporation is a Fortune 500 company that is among the largest investor-owned electric and gas utilities in North America with more than USD \$30 billion in assets. Ameren Corporation through its subsidiaries serves 2.4 million electric customers and more than 900,000 natural gas customers across 64,000 square miles in Illinois and Missouri. Ameren prides itself on operating safely and maintaining financial strength while providing reliable, reasonably priced energy in an environmentally responsible fashion. It draws upon tremendous expertise that runs across all the core functional areas of the electricity transmission business, including over 400 full-time professionals

working in regulatory, planning, engineering and design, construction management, project management, compliance, scheduling, cost engineering, operations, and asset management.

4. Lexi Decision

The Board's 2009 decision concerning Lexi Transmission Corporation's application for an electricity transmission licence (EB-2009-0164, the "**Lexi Decision**") established two threshold tests that have been considered in subsequent decisions (EB-2015-0264 and EB-2021-0088). The two threshold tests are:

1. Whether there is a specific project which underpins the application; and
2. In the absence of a specific project, whether the applicant is engaged in transmission activity elsewhere and whether it has the necessary technical and financial expertise to undertake transmission activity in Ontario.

The specific project underpinning the Application is the proposed Transmission Project, which is described in section 2 above and in full detail in the enclosed Application. The Applicant currently has no existing transmission assets in Ontario, but numerous transmission assets outside of Ontario, consistent with other recent, successful transmission license applicants.

Should the Board approve this Application, the Applicant intends to bring an application to the Board for leave to construct the requisite portions of the proposed Transmission Project, which will ultimately serve as an essential component of the Crawford Mine and operationalize its net zero carbon operations by supplying access to clean electricity supply that is not otherwise available.

TIP-1 anticipates that the proposed Transmission Project may also support other transmission network assets, given that the Transmission Line will provide further transmission capacity to the existing Ontario power grid. This may improve both access to electricity and improved electricity reliability to a larger number of individuals, Indigenous and other communities in Northern Ontario, particularly if the use and useful life of the Transmission Project extends beyond the life of the Crawford Mine as intended.

The Applicant therefore submits that it satisfies Part 1 of the test in the Lexi Decision and that it is unnecessary to consider Part 2 of the Lexi test.

In the event the Board disagrees and requires consideration of Part 2 of the Lexi test, the Application sets out the significant transmission activity outside of Ontario and the extensive technical and financial expertise that the Applicant, its shareholders and their corporate parents and affiliates bring to the proposed Transmission Project. This is also summarized in Appendix – Response 9 of the Application and Section 3 above. The Applicant's resources, available to it through contractual agreements with its Affiliates and corporate parents, currently own and operate over 4,787 miles of 138 kV line, over 945 miles of 161 kV line, approximately 78 miles of 230 kV line and over 2,539 miles of 345 kV transmission line. Since 2015, this includes placement of over 500 miles of new transmission lines in service on newly acquired rights-of-way throughout the states of Illinois and Missouri.

The Applicant's resources available to it through agreements with its corporate parents and affiliates also have significant financial and transmission expertise. For example, Ameren's

Federal Energy Regulatory Commission (“**FERC**”)-Regulated Transmission Rate Base in Illinois is USD \$4 billion as of the end of 2021. Ameren is currently developing over \$3.5 billion of transmission projects through 2026. It has operated transmission infrastructure for over 100 years, including experience working with all types of construction, designs, terrain challenges, and site conditions. It draws upon tremendous expertise that runs across all the core functional areas of the business, including over 400 full-time professionals working in regulatory, planning, engineering and design, construction management, project management, compliance, scheduling, cost engineering, operations, and asset management.

5. Effective Date

The Applicant requests that the Board maintain its recent precedent³ of allowing the Transmission Licence to be effective on the earlier of the following two dates:

1. The date upon which the OEB is satisfied that the Applicant has been selected by appropriate authorities as a developer of transmission assets in Ontario; or
2. The date upon which the OEB, on the basis of the Applicant’s application, amends schedule 1 of the licence to specify the transmission facilities to be owned and/or operated by the Applicant.

The Applicant requests that the Board (i) specify the proposed Transmission Line to be operated by the Applicant in Schedule 1 of the License and allow it to be effective immediately or (ii) in the alternative, amend Schedule 1 of Licence after it has been granted to reflect the final effective date once the Board determines that one of the two triggering events has occurred.

6. In-Service Date

It is the Applicant’s intention to begin construction of the Transmission Project following a successful application to the Board for leave to construct the Transmission Project. Accordingly, the in-service date for the Transmission Project remains to be determined. The Applicant’s current estimate is that construction will begin in 2024, with Q2 2027 as the anticipated in-service date.

7. Confidentiality Requests

The Applicant requests confidential treatment for the following information contained in the Application:

- Information in Item 10 of the Application, with the exception of the names and positions of the individuals referenced. This request is consistent with the Board’s position set out on page 1 of the Application Instructions.
- In the event the Unanimous Shareholder Agreement is produced as part of this Application, the Applicant may seek confidential treatment of its contents.

³ See EB-2015-0264 and EB-2016-0016. EB-2021-0088 is also very likely an applicable precedent, since the applicant requested only the second triggering event, arguing in its cover letter that the first did not apply in the circumstances.

8. Procedural Steps and Contact Information

The Applicant requests that the Board consider the Application by way of a written hearing. The Applicant also requests that the Board direct all correspondence concerning the Application to:

Resilient LLP

Bay Adelaide Centre
333 Bay Street, Suite 625
M5H 2R2

Attention:

Elisabeth (Lisa) DeMarco
Tel: 647-991-1190
lisa@resilientllp.com

Nicholas Daube
Tel: 416-768-8341
nicholas@resilientllp.com

Transmission Infrastructure Partnerships-1 Limited

TD Canada Trust Tower
161 Bay Street, 27th floor
Toronto, ON M5J 2S1

Attention:

Vincent Buron
Chief Executive Officer
Tel: (416) 572-2144
v.buron@virespartners.com

Sincerely,



Lisa (Elisabeth) DeMarco

Encl.



Ontario Energy Board
Commission de l'Énergie de l'Ontario

Application for Electricity Transmission Licence

Ontario Energy Board
2300 Yonge Street
P.O. Box 2319
Toronto, ON M4P 1E4
Telephone: 1-888-632-6273
Facsimile: (416) 440-7656

Commission de l'Énergie de
l'Ontario
2300 rue Yonge
C.P. 2319
Toronto, ON M4P 1E4
Téléphone: 1-888-632-6273
Télécopieur: (416) 440-7656

Application Instructions

1. Purpose of this form

The purpose of this form is to collect information to determine whether the Applicant will be granted a licence to transmit electricity.

2. Structure of the Application Form

This form contains the following sections:

- A General Information;
- B Corporate Information;
- C Notice and Consent;
- D Acknowledgement

Note: The Board shall keep confidential the information in Item 10, Section B of this form, with the exception of the names and positions held of key individuals. All other information filed as part of this application will be considered public. Where the applicant objects to public disclosure of the information, the applicant must follow the Ontario Energy Board's approved Guidelines for Treatment of Filing made in confidence, effective March 19, 2001.

3. Completion Instructions

PRINT CLEARLY or TYPE all information in BLACK. Please send the completed form and two copies of all attachments to:

Board Secretary
Ontario Energy Board
2300 Yonge Street
P.O. Box 2319, 26th Floor
Toronto, ON M4P 1E4

4. Licence Fees:

Application Fees:

A non-refundable application fee is required to process your application. Please enclose a cheque or money order made payable to the **ONTARIO ENERGY BOARD**.

Note:

The Licencee may be required to pay an annual fee.

5. Important Information:

As a licenced Electricity Transmitter, the licensee may be subject to additional obligations as required by the Independent Electricity System Operator (IESO) and as established under section 70 of the *Ontario Energy Board Act, 1998*.

The issuance of an electricity transmission licence does not guarantee accreditation by the IESO or connection to a transmission or distribution system.

REMARQUE:

Ce document est disponible en français.

For Office Use Only	
Application Number	
Date Received	

A. General information

1. Type of Application

New licence	<input checked="" type="checkbox"/>
Renewal	<input type="checkbox"/>
Amendment to an existing Licence	<input type="checkbox"/>

2. Applicant

Please provide the following information about the Applicant			
Full Legal Name of Applicant Transmission Infrastructure Partnerships 1 Limited		Ontario Corporation Number, Canadian Corporation Number or Business Registration Number 1264006-6	Date of Formation or Incorporation January 12, 2021
Business Address: TD Canada Trust Tower, 161 Bay Street, 27th Floor			
City Toronto	Prov. Ontario	Country Canada	Postal/Zip Code M5J 2S1
Phone Number 416-572-2144	FAX Number	E-Mail Address (if applicable)	

3. Primary Contact for this Application

Please provide the following information about the Primary Contact for this Application:				
Mr. <input type="checkbox"/>	Mrs. <input type="checkbox"/>	Last Name: DeMarco	Full First Name: Elisabeth (Lisa)	Initial:
Miss <input type="checkbox"/>	Ms. <input checked="" type="checkbox"/>	Position Held: Senior Partner and CEO		
Other: _____				
Contact Address (if R.R., give Lot, Concession No. and Township) Resilient LLP, Bay Adelaide Centre, 333 Bay Street, Suite 625				
City Toronto	Province Ontario	Country Canada	Postal/Zip Code M5H 2R2	
Phone Number 647-991-1190	FAX Number	E-mail Address (if applicable) lisa@resilientllp.com		

4. Transmission Facilities

Please provide a description of the transmission facilities involved in this Application:	
Please see Appendix at response 4.	

B. Corporate Information

Organizational

5. Business Classification

Please indicate the Applicant's Business Classification (check appropriate type below):

- ☐ Sole Proprietor
- ☐ Partnership
- ☒ Corporation
- ☐ Other (describe) _____

6. Business Activities

Please provide a description of the Applicant's business activities:

Please see Appendix at response 6.

7. Affiliates of the Applicant

a) Please provide the following information for all Affiliates of the Applicant:

Full Legal Name of Affiliate Company:

Please see Appendix at response 7.

Business Address:

City	Prov.	Country	Postal/Zip Code
Phone Number	FAX Number	E-Mail Address (if applicable)	

Description of Business Activities:

Please see Appendix at response 7.

b) Please attach a Corporate organization chart describing the relationships between the Applicant and its Affiliates and, if applicable, the respective ownership percentages by the Applicant in each Affiliate.

Please see Appendix at response 7.

8. Energy Sector Activities

Has the Applicant or an Affiliate undertaken any energy sector activities in Ontario or any other jurisdiction? If yes, please provide the following information for each:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Full Legal Name of Company:	Licence/Registration Number:
Jurisdiction:	Type of Business Activity (e.g. Generation, Transmission, Distribution):

Technical Capability and Experience

9. Technical Ability

- a) Please describe the applicant's technical ability to carry out the activities applied for including the Applicant's specific experience in Ontario and in other jurisdictions.

Please see Appendix at response 9.

- b) If the Applicant intends to utilize the capability of others by contracting transmission activities, please indicate below which activities and to whom they will be contracted:



Design

Contracted to:

Qualified contractor, with details to be determined.



Construction

Contracted to:

Qualified contractor, with details to be determined.



Customer Connection

Contracted to:

Qualified contractor, with details to be determined.



Inspection & Maintenance

Contracted to:

Qualified contractor, with details to be determined.



Operation

Contracted to:

Qualified contractor, with details to be determined.



Other (describe)

Contracted to:

10. Information About Each Key Individual

Mr. <input checked="" type="checkbox"/> Mrs. <input type="checkbox"/> Miss <input type="checkbox"/> Ms. <input type="checkbox"/> Other: _____	Last Name: Archibald	Full First Name: Bruce	Initial:
Position Held: Director and Chair of the Board			
<p>Bruce Archibald is Chief of Taykwa Tagamou Nation ("TTN") and Chair of the TIP-1 board of directors as well as a director of the Applicant. Bruce was first elected as Chief of TTN in 2016 after more than 10 years as a member of the Council. Bruce is deeply connected to the land and respectful of its history. He leads his community with passion, an extraordinary commitment to his community and the wisdom to balance modernity and tradition. Bruce held line and management positions in the energy and forestry industries for many before dedicating himself to public service.</p>			
<p>a) Has this person been a proprietor, partner, officer or director of a business that was granted a licence under Part IV or Part V of the <i>Ontario Energy Board Act, 1998</i>. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, provide business names and licence number(s) and describe the individuals specific related experience.</p> <p>.....</p> <p>.....</p> <p>.....</p>			
<p>b) Has this person been a proprietor, partner, officer, or director of a business that was registered or licenced under this or any other acts or legislation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, identify the business name, the legislation, licence number(s), date of the licencing or registration and the individual's specific related experience.</p> <p>.....</p> <p>.....</p> <p>.....</p>			
<p>c) Has this person been a proprietor, partner, officer or director of a business that had a registration or licence of any kind refused, suspended, revoked or cancelled? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, please provide company name and describe the situation, including the jurisdiction and type of licence.</p> <p>.....</p> <p>.....</p> <p>.....</p>			

Note:

Attach a copy of Item 10 for each Key Individual: Officer and Director, Partner or sole Proprietor.

10. Information About Each Key Individual

Mr. <input checked="" type="checkbox"/> Mrs. <input type="checkbox"/> Miss <input type="checkbox"/> Ms. <input type="checkbox"/> Other: _____	Last Name: Schukar	Full First Name: Shawn	Initial:
Position Held: Director			
Shawn Schukar is a director of the Applicant and the Chairman and President of Ameren Transmission Company, where he leads the development of new transmission and is responsible for the operations, planning and policymaking relating to Ameren's transmission system. Shawn has more than 30 years of experience in the utility industry. His responsibilities at Ameren have included marketing, trading, and asset management. His experience in the transmission business includes overseeing network, distribution and generation connections, along with engineering, regulatory and risk management.			
a) Has this person been a proprietor, partner, officer or director of a business that was granted a licence under Part IV or Part V of the <i>Ontario Energy Board Act, 1998</i> . Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, provide business names and licence number(s) and describe the individuals specific related experience.			
b) Has this person been a proprietor, partner, officer, or director of a business that was registered or licenced under this or any other acts or legislation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, identify the business name, the legislation, licence number(s), date of the licencing or registration and the individual's specific related experience.			
c) Has this person been a proprietor, partner, officer or director of a business that had a registration or licence of any kind refused, suspended, revoked or cancelled? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, please provide company name and describe the situation, including the jurisdiction and type of licence.			

Note:
Attach a copy of Item 10 for each Key Individual: Officer and Director, Partner or sole Proprietor.

10. Information About Each Key Individual

Mr. <input checked="" type="checkbox"/> Mrs. <input type="checkbox"/> Miss <input type="checkbox"/> Ms. <input type="checkbox"/> Other: _____	Last Name: Buron	Full First Name: Vincent	Initial:
Position Held: Director and President			
<p>Vincent Buron is President and Managing Director of the Applicant. Vincent has over 25 years of electricity industry experience. He was the Chief Operating Officer of Brookfield Power (as it was then known), one of the world's largest pure-play renewable power funds. Vincent was also a Managing Director at Hydro-Quebec with responsibilities for new project development. He has led efforts to secure billions of dollars in financing for the organization of Indigenous-led projects over the course of his career, including in his capacity as Chief Executive Officer of Qikiqtaaluk Corporation. He brings an in-depth understanding of Indigenous culture, infrastructure project development, construction, operations and financing.</p>			
<p>a) Has this person been a proprietor, partner, officer or director of a business that was granted a licence under Part IV or Part V of the <i>Ontario Energy Board Act, 1998</i>. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If yes, provide business names and licence number(s) and describe the individuals specific related experience.</p> <p>.....</p> <p>Vincent Buron was COO of Brookfield Power (as it was then known).</p> <p>.....</p> <p>.....</p>			
<p>b) Has this person been a proprietor, partner, officer, or director of a business that was registered or licenced under this or any other acts or legislation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, identify the business name, the legislation, licence number(s), date of the licencing or registration and the individual's specific related experience.</p> <p>.....</p> <p>.....</p> <p>.....</p>			
<p>c) Has this person been a proprietor, partner, officer or director of a business that had a registration or licence of any kind refused, suspended, revoked or cancelled? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, please provide company name and describe the situation, including the jurisdiction and type of licence.</p> <p>.....</p> <p>.....</p> <p>.....</p>			

Note:
Attach a copy of Item 10 for each Key Individual: Officer and Director, Partner or sole Proprietor.

11. Financial Information

Please attach financial statements of the Applicant for each of the past two fiscal years. This may include audited financial statements, annual reports, prospectuses or other such information.

Transmission Facilities Information

12. Facilities

Please indicate whether the Applicant's transmission facilities are:	
<input checked="" type="checkbox"/> New assets to be constructed? Please see Appendix at response 4 and 12.	Proposed In-service date: <u>Currently anticipated for Q2 2027</u> Please attach a statement explaining the financing arrangements.
<input type="checkbox"/> Existing assets presently owned by the Applicant?	
<input type="checkbox"/> Existing assets not presently owned by the applicant (i.e. to be purchased)?	Please indicate from whom assets will be purchased:
<input type="checkbox"/> Other (describe)	

13. Purpose of Facilities

Please indicate the intended purpose(s) of the Applicant's transmission facilities:	
<input type="checkbox"/> To provide a connection between a generator and a transmission system.	
<input checked="" type="checkbox"/> To provide a connection between a transmission system and a load customer.	
<input type="checkbox"/> To provide a connection between a generator and a load customer.	
<input checked="" type="checkbox"/> To provide a connection between one transmission system and another	
<input type="checkbox"/> To import or export power	
<input checked="" type="checkbox"/> Other (please describe): <u>To connect a new mine to the existing grid, which will support the development and connection of renewable generation in the future, as well as improve the reliability of the existing transmission system.</u>	
If parties other than the Applicant are involved, please indicate the specific names of the participants (generator, load customer, transmission system(s): The Phase 1 facilities will connect Canada Nickel's new mine to the existing Hydro One Porcupine Transmission System. Full details are set out in this Application's Appendix.	

14. Location of Facilities

Please indicate the location (township or other such description as appropriate) of the Applicant's transmission facilities and attach a single-line diagram indicating the length (km), capacity (MW) and operating voltage (kV) of each element.

Please see Appendix at response 14.

15. Licensing History

Has the Applicant obtained Ontario Energy Board, National Energy Board, Federal Energy Regulatory Commission or any other regulatory approvals required for the acquisition, construction or operation of the transmission facilities?

Yes

☐

No

☒

If no, please indicate the status and plans for seeking these approvals.

16. Service to other parties

If the transmission facilities are to be used to deliver electricity to a party other than the Applicant please attach the following:

- a) a summary of business plans relating to the Applicant's proposed transmission business for the next five years. This should include the following:
 - a forecast of annual peak demand (MW) and energy (MWH) transmitted and/or transformed.
 - annual pro forma financial statements including forecasts of costs, revenues and project financing indicating the underlying assumptions on which the forecasts are based.
- b) estimates of net annual cash flows for subsequent periods to demonstrate financial feasibility and security.
- c) indication of the Applicant's plans to seek Ontario Energy Board approval for rates for transmission service.

Please see Appendix at response 16.

17. Proposed business transactions impact

Please provide a brief summary of the expected impact of the proposed business transactions on the Ontario electricity market under the following headings:

- Facilitate competition and enhance access to transmission services
- Improve reliability and quality of supply
- Promote economic and efficient electrical energy supply

Please see Appendix at response 17.

Other Information

18. Ontario market activities

Please indicate whether the Applicant intends to be involved with other electricity sector activities in the Ontario market?		
<input type="checkbox"/> Buy or Sell (Wholesale) electricity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<input type="checkbox"/> Distribute electricity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<input type="checkbox"/> Retail electricity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<input type="checkbox"/> Generate electricity	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If yes to any of the above:		
a) If affiliates have not yet been established, please indicate when this is planned _____		
b) Has Applicant or an affiliate applied for an Ontario Energy Board Licences?		
- If no, when planned? _____	Yes <input type="checkbox"/>	No <input type="checkbox"/>

C. Notice and Consent

AS REQUIRED BY THE FREEDOM OF INFORMATION AND PROTECTION OF INDIVIDUAL PRIVACY ACT

In order to complete or verify the information provided on this form, it may be necessary for the Ontario Energy Board to collect additional information from some or all of the following sources: federal, provincial/state and municipal governments; licensing bodies; banks; professional and industry associations; and former and current employers. **Only information relevant to your application will be collected.**

The public official who can answer questions about the collection of information is:

Board Secretary
Ontario Energy Board
2300 Yonge Street, P.O. Box 2319
Toronto, Ontario M4P 1E4

Note: The issuance of an electricity transmitter licence does not guarantee accreditation by the IESO, or connection to a transmission or distribution system.

NOTE: This application must be signed by the proprietor or by at least one partner, officer or director of the organization.

WARNING: It is an offence to knowingly provide false information on this application.

I/We consent to the collection of this information as authorized under the *Ontario Energy Board Act, 1998*.

Yes



I/We understand that this information will be used to determine whether I am/we are and remain qualified for the licence for which I am/we are applying.

Yes



Print Name and Title

Bruce Archibald
Chair of the Board

Signature of Applicant(s)

Date Signed

Feb 8, 2023

D. Acknowledgement

NOTE: This acknowledgement must be signed by the proprietor or by at least one partner, officer or director of the organization.

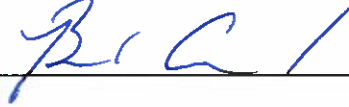
I understand and acknowledge that, as a licenced electricity transmitter, I will be required, unless otherwise exempted:

- To provide non-discriminatory access to all persons wishing to connect to the transmission system.
- To comply with all licence conditions including the provisions of:
 - The Ontario Energy Board Affiliate Relationships Code for Electricity Distributors and Transmitters
 - The Ontario Energy Board Transmission System Code
 - The Market Rules made under section 32 of the Electricity Act.

Print Name and Title

Bruce Archibald
Chair of the Board

Signature of Applicant(s)



Date Signed

Feb. 8, 2023

APPENDIX – RESPONSE 4

Description of the Transmission Facilities

The Proposed Transmission Project Would Connect the New Crawford Mine to the Porcupine Hydro One Substation in Timmins

The Applicant is in the process of planning and developing, and intends to construct, own and operate, new electricity transmission facilities in the area of Crawford, Ontario, which is approximately 40 kilometres north of Timmins.

More specifically, the Applicant plans to build:

- a new switching station in the vicinity of Crawford; and
- a new 230 kV transmission line, which will be approximately 42 kilometres in length, which will connect the Switching Station with the Porcupine Hydro One Network Inc. substation in Timmins.

The Porcupine substation will require some modification to accommodate this new Transmission Line. TIP-1 is working with Hydro One to ensure these modifications occur and fully support the development of the Transmission Project and service to the initial CNC load.

The proposed Transmission Project will satisfy the significant energy needs of the Crawford Mine. These anticipated energy needs reflect the Crawford Mine's objective of operating on a net zero carbon basis, with many significant elements of its operations (which are traditionally fossil fuelled) being electrified.

CNC will need a minimum of three 230-34.5 kV transformers to satisfy the anticipated load of over 225 megawatts. These three transformers will be located in the Crawford Mine customer transformer station adjacent to the Switching Station and will be interconnected to the Switching Station.

A single-line diagram for the planned Transmission Project is attached hereto as **Schedule 'A'**.

The new Transmission Line right-of-way will mainly follow the western side of Highway 655 up to the new Switching Station. A map depicting the currently anticipated routing for the Transmission Line is attached hereto as **Schedule 'B'**. The proposed route is currently being considered through the environmental assessment process.

The Transmission Project will need to be constructed, tested, and commissioned before the Crawford Mine's load comes on-line, which is expected to occur in mid-2027. The Applicant therefore proposes that construction of the Transmission Project take place from Q2 2024 to Q2 2027.

The Transmission Project Would Meet the Needs of the Crawford Mine and Is Consistent with Ontario's Green Energy Objectives

The Transmission Project will promote Ontario's environmental, electrification and energy transition objectives. It is required to meet the energy needs of CNC's new Crawford Mine, which CNC will construct following its recent nickel-cobalt sulphide discovery.

Nickel has quickly developed into an essential element of electrification, energy transition, and a sustainable economy due to its important role in facilitating battery storage. Nickel has become increasingly important for batteries and electric vehicles, since it helps deliver higher energy density and greater storage capacity at a lower cost. This importance has only increased as lithium-ion batteries are incorporated into the next generation of electric cars, with their superior power density facilitating travel over long distances.⁴ The Government of Ontario has recognized nickel as essential in battery technology for these reasons, and it is actively supporting nickel mining in Ontario as part of its Critical Minerals Strategy.⁵

Operation of the Crawford Mine and the Applicant's essential role in supporting the Crawford Mine serve provincial, corporate, and broader societal, electrification, and energy transition goals, in part by facilitating the Crawford Mine's ability to operate on a net zero carbon basis. CNC's plans include the use of a fleet of electric-powered heavy mining equipment and electric-powered milling operations, adding to the energy requirements that the Transmission Project will satisfy.

The Crawford Mine also provides the opportunity to develop renewable resources, consistent with Ontario's stated objectives relating to clean energy, electrification, transition to a sustainable economy, and Indigenous participation. CNC's nickel-cobalt sulphide discovery in Crawford will yield critical materials that support the fast-growing electric vehicle and stainless-steel markets, both of which are important components of Ontario's (and Canada's) electrification and energy transition initiatives.

⁴ See <https://nickelinstitute.org/en/about-nickel-and-its-applications/nickel-in-batteries/>; <https://www.investontario.ca/spotlights/where-future-hub-battery-electric-vehicles-greater-sudbury#related>.

⁵ <https://www.ontario.ca/files/2022-03/ndmnr-ontario-critical-minerals-strategy-2022-2027-en-2022-03-22.pdf>.