Customer Application For New or Modified Connections



Submit this form by mail or courier to the following address:

Five Nations Energy Inc. 70-C Mountjoy St N Suite 421 Timmins Ontario P4N 4V7 Attn: John Sucee, Operations Manager

Subject: Customer Application For New or Modified Connections

All information submitted in this process will be used by Five Nations Energy Inc. solely in support of its obligations under the Transmission System Code, *Electricity Act, 1998*, the *Ontario Energy Board Act, 1998*, the IESO *Market Rules, OEB approved Connection Procedures and its transmission license.* All information submitted will be assigned the appropriate confidentiality level upon receipt.

| New Connection: | Modification to an Existing Connection Facility: | \square |
|-----------------|--------------------------------------------------|-----------|
| tew connection. | Moundation to an Existing Connection Facility. | |

Project Name:_____

PART 1 – GENERAL INFORMATION

| Organization Name: | | | | | | | |
|--------------------------------------------------|----------|--|--|--|--|--|--|
| Organization Short Name: (Maximum 12 keystrokes) | | | | | | | |
| Mailing Address: | | | | | | | |
| City/Town: Province/State: | | | | | | | |
| Postal/Zip Code: | Country: | | | | | | |
| Fax No.: | | | | | | | |
| Email Address: | | | | | | | |
| Main Contact | | | | | | | |
| Name: | | | | | | | |
| Position/Title: | | | | | | | |
| Telephone No.: | Fax No.: | | | | | | |
| E-mail Address | | | | | | | |

PART 2 – REQUIRED DOCUMENTATION ATTACHED BY CUSTOMER APPLICANT

| LO | LOAD CUSTOMERS | | | | | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| | In-service date. | | | | | | | |
| | Indicate whether new or existing connection requiring expansion, describe project. | | | | | | | |
| | Connection location / address. | | | | | | | |
| | Forecasted new load that will be guaranteed by the Customer (initial, intermediate & ultimate) including size and date. Identify seasonal/monthly variations in load (summer or winter peak). Provide the 5 most recent years or historical load pertaining to existing facilities as identified by Five Nations Energy Inc., if connected less than 5 years the most year or years. | | | | | | | |
| | Identify nature of business (specify industry) and any specific reliability requirements. | | | | | | | |
| | Provide the technical information identified in Appendix A of this application entitled "New or Modified Customer Facility Technical Information for Load Customers". | | | | | | | |
| | Scada requirements for New or Modified Facility to be identified by Customer and Five Nations Energy Inc. during project review meetings and incorporated into CCRA as required. | | | | | | | |
| | Identify the name, address and contact information of the New or Modified Facility Meter Service Provider and Market Participant name. | | | | | | | |
| GE | NERATORS | | | | | | | |
| | In-service date. | | | | | | | |
| | Indicate whether new or existing connection requiring expansion, describe project. | | | | | | | |
| | Connection location / address, total generation including number of units, size of units and power factor | | | | | | | |
| | Forecasted new seasonal/monthly operating schedule including output.by generating unit. | | | | | | | |
| | Identify nature of business (specify industry) and any specific reliability requirements. | | | | | | | |
| | Provide the technical information identified in Appendix B of this application entitled Transmission System Connection Application for Generator Customers. | | | | | | | |
| | Scada requirements for New or Modified Facility to be identified by Customer and Five Nations Energy Inc. during project review meetings and incorporated into CCRA as required. | | | | | | | |
| | Identify the name, address and contact information of the New or Modified Facility Meter Service Provider and Market Participant name. | | | | | | | |

PART 3 – CERTIFICATION

 The undersigned hereby declares that the information contained in and submitted in support of this document is, to the best of the connection applicant's knowledge, complete and accurate.

 Name
 Title

 Signature
 Date

Transmission Customer Application - New or Modified Connection

PART 4 – PERMISSION

| The undersigned Customer hereby allows if required by Five Nations Energy Inc., the IESO to release a copy of any connection assessment and or facility registration documents associated with the Customer Application related to any new, modified or replacement Customer Facilities that the Customer has submitted to the IESO. | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|--|--|--|--|
| Name | Title | | | | | |
| Signature | Date | | | | | |
| PART 5 – FOR FIVE NATIONS ENERGY INC USE ONLY | | | | | | |

| Received by: | Date Received: |
|------------------------------------------------|----------------|
| Date of Request(s) for Additional Information: | |
| Date Requested: | Date Received: |
| Date Requested: | Date Received: |
| Application Completion Date: | |

Appendix A

"New or Modified Customer Facility Technical Information for Load Customers".

In accordance with section 6.1.11 of the Transmission System Code, Five Nations Energy Inc. requires customers connecting any new, modified or replacement customer facilities to provide the following completed IESO connection assessment and facility registration documentation:

- □ System Impact Assessment Application for Load Customers
 - □ Attached
 - □ To be provided by _____.
- □ Final System Impact Assessment Report for Load Customers
 - □ Attached
 - □ To be provided by _____.
- Feasibility Study Application for Load Customers
 - □ Attached
 - To be provided by _____.
- □ Final Feasibility Study Report
 - □ Attached
 - □ To be provided by _____.

In addition, to the above Five Nations Energy Inc. may require the following documents in order to access the impact on the reliability of the customers new, modified or replacement facility on the transmission system if they are not included in the IESO documentation:

- □ Single line diagram illustrating all protection schemes, 3 wire and/or DC elementary wiring drawings maybe required.
 - □ Attached
 - □ To be provided by _____.
- Dever transformer nameplate data.
 - □ Attached
 - To be provided by _____.
- □ Relay settings & verification tests
 - □ Attached
 - To be provided by _____.
- High voltage equipment operating & protection philosophy that are impactive on the transmission system
 - □ Attached
 - □ To be provided by _____.
- **□** Tripping Matrix as per required by the code.
 - □ Attached
 - □ To be provided by _____.

Appendix **B**

"Transmission System Connection Application for Generator Customers"

GENERATOR CONNECTION REVIEW FORM

Given below is typical information required from Generators for the Initial Meeting with Five Nations Energy Inc. .

| Da | te:(dd / mi | m / yyyy) | | |
|----|-------------|--------------------------------------------|-----------------------|------------------------------|
| 1. | Project Na | me: | | |
| 2. | Project Dat | tes: Proposed S Proposed In | tart of Construction: | (dd/mm/yyyy) (dd/mm/yyyy) |
| 3. | Project Siz | Rating of Ea Number of F Proposed To | | kW |
| 4. | Project Loo | cation _ | | |
| 5. | Project De | | | |
| 6. | Project Ow | vner (if not same as | Project Developer): | |

| 7. | Engineering | Consultant | (Electrical) | ۱ |
|----|---------------|------------|--------------|---|
| | Linginicering | oonsultant | | , |

| | Contact | Company / Person: | | | | | | |
|-----|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------|--------|---------|----------|-----------|--------------------------------------------------|
| | Contact: | Mailing Address: | | | | | | |
| | | Telephone: Fax: E-mail: | | | | | | |
| 8. | Project Ty | vpe: | | | | | | |
| | Diesel Eng | ine 🛛 Hydraulio gine 🖵 Solar on / CHP (Combined se specify | | | 🖵 Fue | | ne | Gas Turbine Biomass |
| 9. | Generator | Voltage and Type: | | | | | | |
| a. | Generatior | n Voltage □ DC | | | _ Volts | | | |
| b. | Synch | ating Generators pronous , please specify | 🗆 Indu | uctior | 1 | | | |
| c. | 🗆 DC So | ng DC Generation burce- Photovoltaic A , please specify | rrays | | DC So | urce- Fu | el Cells | DC Source- Batteries |
| 10. | | Step-up Interface T e - solid grounded, wy | | | | | c.) | |
| | | ′oltage* oltage** | | | | | | |
| | The connection of the windings should also be indicated in the Single Line Diagram (SLD). | | | | | | | |
| | | | | | | | | Energy Inc.'s transmission syst te voltage. |
| 11. | Location I | Map and Connectior | ı Voltaç | ge to | FNEI S | System | | |
| | | e Site Location Map v ctions to Five Nations | | | | | ation fac | ility, line routing and proposed |

12. Single Line Diagram (SLD)

• Provide SLD of Generator facility showing the interface point to Five Nations Energy Inc. system.

The SLD should include the required disconnecting device and show various equipment viz. generators, high and low voltage switchgear, transformers, motors, protective relays / devices, instrument transformers (CTs and VTs), metering, synchronizing etc.

Provide as much information as possible on the SLD.

13. Operation, Generation and Load Information:

• Mode of Operation:

| | 24 hour or Base Load Other, please specify | Peak | Period Only | / | Load Displace | ment |
|---|-----------------------------------------------------------------------------------------------------|-------|-------------|-----|---------------|------|
| • | Annual Capacity Factor Prospective number of annual scheo starts / stops, and timing thereof | duled | | | % | |
| • | Estimated maximum load of the gen Estimated maximum power export fr facility (to FNEI system) | | cility | kVA | kVA | kW |