



CLOSED TRANSITION BACKUP GENERATION APPLICATION

This form is to be completed by all customers who are applying to ERTH Power Corporation (“ERTH Power”) for the installation of a Closed Transition Backup Generation Facility with a size larger than 10 kilowatts (kW). To qualify as a Closed Transition Backup Generation Facility, the generation facility must:

- have a transfer switch (Manual Transfer Switch “MTS” or Automatic Transfer Switch “ATS”) that isolates it from ERTH Power’s distribution system;
- **not** remain parallel with the grid for more than 100ms (Closed Transition only);
- be operated in isolation from ERTH Power’s distribution system;
- be intended to supply the Applicant’s load only when the ERTH Power supply is unavailable; and

Technical Requirements

All Closed Transition Backup Generation must meet the following technical requirements:

- Canadian Standards Association;
 - All applicable standards;
 - CSA 22.3 No.9-08 Interconnection of Distributed Resources and Electricity Supply Systems;
 - CSA 22.3 No. 9-08 Section 7.4.13 Momentary Closed Transition Switching;
- Hydro One Distributed Generation Technical Interconnection Requirements – Interconnections at Voltages 50kV and Below (“TIR”);
 - All applicable standards;
 - TIR Section 2.4.4 Synchronization;
- Ontario Electrical Safety Code;
 - All OESC requirements;
 - OESC Section 84 – Interconnection of Electric Power Production Sources;
 - OESC Section 84-004, provide protection against back-feed into supply authority system fault;
 - OESC Section 84-024, Disconnecting means, must have a visible break disconnect switch meeting OESC requirements, capable of being locked in the open position and accessible for operation by ERTH Power’s staff at all times.

Submission

The following information is required for review and approval:

- This application (“Closed Transition Backup Generation Application”) completed in full and stamped by a Professional Engineer licensed in Ontario;
- Single Line Diagram (“SLD”) including all electrical connections from the point of common coupling (“PCC”), transformation and loads of the load and generation facility stamped by a professional Engineer licensed in Ontario;
- Protection Philosophy for Closed Transition switching that meets all requirements of the TIR, CSA, OESC and all applicable standards; and
- Protection testing plan.

Please return completed forms and required documents by mail to:

ERTH Power Corporation
Attn: Generation
143 Bell Street,
P.O. Box 157
Ingersoll, Ontario, N5C 3K5
Generation@ERTHPower.com



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Section A: Application Information

Application Type:

New Installation Revision Notice

Date: _____ (mm/dd/yyyy)

Project Name: _____

Engineering Stamp

Section B: Customer/Generator/Owner Information

Registered Customer Name: _____ Account #: _____

Address: _____

City: _____ Province: _____ Postal Code: _____

Lot Number(s): _____ Concession Number(s): _____

Telephone No.: _____ Email Address: _____

Cell No.: _____ Fax No.: _____

Section C: Generator Information

Fuel Type: _____ Additional Details: _____

Generation Size Total (kW): _____ Number of Units: _____ Sizes (kW): _____

Connection Type: _____ Transition Time (ms): _____
(CLOSED "make before brake" or OPEN "break before make")

Section D: Existing Generation

Existing Generation: Yes No

If 'Yes' complete the following:

Fuel Type: _____ Additional Details: _____

Total Generation Size (kW): _____

Is the existing generation used as Emergency Backup? Yes No



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Section E: Submission Checklist

Closed Transition

___ Complete Closed Transition Backup Generation Application form stamped by a Professional Engineer of Ontario.

___ Single Line Diagram (“SLD”) of the Emergency Backup Generation Facility stamped by a Professional Engineer of Ontario. The SLD must indicate the following:

- Open or Closed transition;
- Transfer switch (Automatic or Manual);
- Emergency or Standby Generator;
- Main Transformer;
- Isolation Device

___ Manufacturer’s Protection Philosophy for Closed Transition.

Acknowledgement

By submitting this form, I (the “Customer”) hereby acknowledge that the proposed and any existing Backup Generation Facility will be operated only when ERTH Power supply is unavailable; and will not be used anytime for the purpose of displacing load or peak shaving.

Full Name of Customer or officer of Customer (if Customer is corporation) or office of general partner (if Customer is a limited partnership)

Officers of corporations and general partnerships of limited partnerships should be as listed on applicable Master Business License, Articles of Incorporation or Limited Partnerships registration.

Position /Role

___ Individual/Sole Proprietor ___ Officer ___ Other

Title if officer or other

Signature of Customer or officer of Customer (if Customer is corporation) or office of general partner (if Customer is a limited partnership)

_____ Date: _____
(mm/dd/yyyy)