

Closed transition transfer of power generators distribution application form

Closed transition transfer (CTT) projects (temporary parallel operation with a utility) find widespread use in hospitals, data centres and critical facilities where load is sensitive to momentary power loss when transferring between two acceptable sources. You can visit our webpage for an overview of the interconnection process and more details about CTT of power generators interconnection requirements. If you have any questions, please contact your BC Hydro Interconnections Manager or email Distribution.Generators@bchydro.com.

Application submission date

You may need to submit this application more than once as we make sure this application information is deemed complete. We prefer that you submit this application by email as one single pdf with all the required attachments. If you submit your application as multiple pdfs, please make sure each pdf is clearly titled. This will ensure there is no delay when we assess your application for completeness.

Basic project information

Facility name	
Facility address	
Project name	
Target in-service date	

Facility owner information for billing purposes

Company name		
Mailing address		
Contact name	Contact phone	
Contact role	Email	

Facility contact information for real time reliability and supply information

From time to time, the BC Hydro Real Time Operations group will contact your facility regarding your generator(s). These contacts should be available to talk to BC Hydro at any time and be authorized to act in an official capacity.

Principal contact

Name	Role	
Office phone	Cell	
Email		

Alternate contact #1

Name	Role	
Office phone	Cell	
Email		

Alternate contact #2

Name	Role	
Office phone	Cell	
Email		

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Project name:

Additional project information

Does this facility currently have electric service from BC Hydro? If yes, answer below.		<input type="checkbox"/> Yes	<input type="checkbox"/> No
BC Hydro Meter #		BC Hydro Account #	
Is your CTT project part of a load service upgrade or interconnection project?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, who is your BC Hydro Load Interconnections or Local Distribution Design office contact?			
Select a Type of CTT:			
<input type="checkbox"/> Certified Momentary: Transition time ≤ 100 ms, ATS is CSA certified. Applicable Checklist 'CTT Application Requirement Checklist 1'			
<input type="checkbox"/> Extended (a.k.a. Soft): Transition time between 100 ms and 20 s. Applicable checklist 'CTT Application Requirement Checklist 2'			
<input type="checkbox"/> Shore Power: Ship to Shore power inertia, Transition time ≤ 90 s. Applicable checklist 'CTT Application Requirement Checklist 3'			

Generator information

	Unit ID	Manufacturer	Model	Type	Rated kV	Rated MVA	Rated MW
1							
2							
3							
4							

Closed transition transfer (CTT) capable Automatic transfer switches (ATSs)

	ID#	Manufacturer	Model	Normal CTT Duration	CSA C22.2 NO. 178.1 certified?
1					
2					
3					
4					

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Project name:

Utility interconnection protection

1. CTT Capable ATS or Utility Protection Relay (in case of CTT Control Scheme)

Protection function (IEEE #)	Manufacturer	Model	ID #	Settings	
				Magnitude	Time delay
1. Undervoltage (27)					(s)
2. Overvoltage (59)*					(s)
3. Underfrequency (81U)*					(s)
4. Overfrequency (81O)*					(s)
5. Reverse power (32)*					(s)
6. Max. Paralleling (62)					(s)

2. CTT Capable ATS or Utility Protection Relay (In case of CTT Control Scheme)

Protection function (IEEE #)	Manufacturer	Model	ID #	Settings	
				Magnitude	Time delay
1. Undervoltage (27)					(s)
2. Overvoltage (59)*					(s)
3. Underfrequency (81U)*					(s)
4. Overfrequency (81O)*					(s)
5. Reverse power (32)*					(s)
6. Max. Paralleling (62)					(s)

3. CTT Capable ATS or Utility Protection Relay (In case of CTT Control Scheme)

Protection function (IEEE #)	Manufacturer	Model	ID #	Settings	
				Magnitude	Time delay
1. Undervoltage (27)					(s)
2. Overvoltage (59)*					(s)
3. Underfrequency (81U)*					(s)
4. Overfrequency (81O)*					(s)
5. Reverse power (32)*					(s)
6. Max. Paralleling (62)					(s)

4. CTT Capable ATS or Utility Protection Relay (In case of CTT Control Scheme)

Protection function (IEEE #)	Manufacturer	Model	ID #	Settings	
				Magnitude	Time delay
1. Undervoltage (27)					(s)
2. Overvoltage (59)*					(s)
3. Underfrequency (81U)*					(s)
4. Overfrequency (81O)*					(s)
5. Reverse power (32)*					(s)
6. Max. Paralleling (62)					(s)

*Required only for Extended (soft) and Shore Power CTT

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Project name:

Application comments

Use this optional section to add any comments if you feel that aspects of your application need some more explanation.

Engineer of Record declaration

The Engineer of Record declares that the data submitted herein is accurate and meets the requirements of the latest BC Hydro Interconnection Requirements for Closed Transition Transfer of Standby Generators.

	Signature	
	Print name	
	Date	

Seal of Professional Engineer
registered in British Columbia

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Project name:

Your application's required supporting documents

The following supporting documents are required. We prefer that you submit your completed application form and all required documents as one combined PDF. If you need to submit these documents separately, please make sure each PDF is clearly titled. We need to have all the required information before we can start on your proposed project.

Applicable Checklist

CTT Type:	Electricity (Soft)	Checklist Title:	Checklist #1
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A narrative description – if applicable as per checklist

Document title and/or number	Revision number	File name (if applicable)	Date

Facility site plan(s) – if applicable as per checklist

Drawing number	Revision number	File name (if applicable)	Date
1			
2			
3			

Simplified overall facility electrical power distribution one-line diagram(s) – if applicable as per checklist

Drawing number	Revision number	File name (if applicable)	Date
1			
2			
3			

Protection & Control one-line Diagram, or Control Schematic, or Three-line Diagram – if applicable as per checklist

Document title and/or number	Revision number	File name (if applicable)	Date

Technical specification(s) or data sheet – if applicable as per checklist

Document title and/or number	Revision number	File name (if applicable)	Date

Manufacturer's documentation on CSA C22.2 No. 178.1 of CTT ATS – if applicable as per checklist

Document title and/or number	Revision number	File name (if applicable)	Date