

APPENDIX 3 to SGIP

Combined Study Agreement

THIS AGREEMENT is made and entered into this ____ day of _____, 20__ by and between _____, a _____ organized and existing under the laws of the Province of _____, (Interconnection Customer) and BRITISH COLUMBIA HYDRO AND POWER AUTHORITY, a Crown corporation existing under the laws of the Province of British Columbia, (Transmission Provider). Interconnection Customer and Transmission Provider each may be referred to as a "Party," or collectively as the "Parties."

RECITALS

WHEREAS, Interconnection Customer is proposing to develop a Generating Facility or generating capacity addition to an existing Generating Facility consistent with the Interconnection Request submitted by Interconnection Customer dated _____; and

WHEREAS, Interconnection Customer desires to interconnect the proposed or modified Generating Facility with the Transmission System;

WHEREAS, Transmission Provider has completed an Interconnection Feasibility Study (the Feasibility Study) and provided the results of said study to Interconnection Customer (This recital to be omitted if Transmission Provider does not require the Interconnection Feasibility Study);

WHEREAS, Interconnection Customer has requested Transmission Provider to perform an Interconnection System Impact Study to assess the impact of interconnecting the proposed or modified Generating Facility to the Transmission System, and of any Affected Systems; and

WHEREAS, Interconnection Customer has requested Transmission Provider to perform an Interconnection Facilities Study to specify and estimate the cost of the equipment, engineering, procurement and construction work needed to implement the conclusions of the Interconnection

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System Impact Study in accordance with Good Utility Practice to physically and electrically connect the Generating Facility to the Transmission System.

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agreed as follows:

1. When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in the SGIP.
2. Interconnection Customer elects and Transmission Provider shall cause to be performed an Interconnection System Impact Study consistent with Section 7 of the SGIP.
3. The scope of the Interconnection System Impact Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
4. The Interconnection System Impact Study will be based upon the results of the Interconnection Feasibility Study if one was completed and the technical information provided by Interconnection Customer in the Interconnection Request, subject to any modifications in accordance with Section 4.4 of the SGIP. Transmission Provider reserves the right to request additional technical information from Interconnection Customer as may reasonably become necessary consistent with Good Utility Practice during the course of the Interconnection System Impact Study. If Interconnection Customer modifies its designated Point of Interconnection, Interconnection Request, or the technical information provided therein is modified, the time to complete the Interconnection System Impact Study may be extended.
5. The Interconnection System Impact Study report shall provide the following information:
 - (a) identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;

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- (b) identification of any thermal overload or voltage limit violations resulting from the interconnection;
 - (c) identification of any instability or inadequately damped response to system disturbances resulting from the interconnection; and
 - (d) description and non-binding, good faith estimated cost of facilities required to interconnect the proposed or modified Generating Facility to the Transmission System and to address the identified short circuit, instability, and power flow issues.
6. Interconnection Customer shall provide a deposit of \$75,000 for the performance of the Interconnection System Impact Study. Transmission Provider's good faith estimate for the time of completion of the Interconnection System Impact Study is [insert date].

Transmission Provider may request additional deposits based upon its assessment of the estimated final cost for the completion of the Interconnection System Impact Study.

Upon receipt of the Interconnection System Impact Study, Transmission Provider shall charge, and Interconnection Customer shall pay, the actual costs of the Interconnection System Impact Study.

Any difference between the deposit and the actual cost of the study shall be paid by or refunded to Interconnection Customer, as appropriate.

7. If Interconnection Customer elects to proceed with an Interconnection Facilities Study consistent with Section 8.2 of the SGIP, Transmission Provider shall cause an Interconnection Facilities Study consistent with Section 8 of the SGIP to be performed in accordance with the Tariff.

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8. The scope of the Interconnection Facilities Study shall be subject to the assumptions set forth in Attachment B and the data provided in Attachment C to this Agreement.
9. The Interconnection Facilities Study report (i) shall provide a description, estimated cost of (consistent with Attachment B), schedule for required facilities to interconnect the proposed or modified Generating Facility to the Transmission System and (ii) shall address the short circuit, instability, and power flow issues identified in the Interconnection System Impact Study.
10. If Interconnection Customer elects to proceed with an Interconnection Facilities Study consistent with Section 8.2 of the SGIP, Interconnection Customer shall provide an initial deposit of \$150,000 for the performance of the Interconnection Facilities Study. The time for completion of the Interconnection Facilities Study is specified in Attachment B.

~~Transmission Provider may invoice Interconnection Customer on a monthly basis for the work to be conducted on the Interconnection Facilities Study each month. Interconnection Customer shall pay invoiced amounts within thirty (30) Calendar Days of receipt of invoice. Transmission Provider shall continue to hold the amounts on deposit until settlement of the final invoice. request additional deposits and/or security based upon its assessment of the estimated final cost of the study.~~

Upon receipt of the Interconnection Facilities Study, Transmission Provider shall charge, and Interconnection Customer shall pay, the actual costs of the Interconnection Facilities Study.

Any difference between the deposit and the actual cost of the study shall be paid by or refunded to Interconnection Customer, as appropriate.

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11. Miscellaneous. The Combined Study Agreement shall include standard miscellaneous terms including, but not limited to, indemnities, representations, disclaimers, warranties, governing law, amendment, execution, waiver, enforceability and assignment, that reflect best practices in the electric industry, that are consistent with regional practices, Applicable Laws and Regulations and the organizational nature of each Party. All of these provisions, to the extent practicable, shall be consistent with the provisions of the SGIP and the SGIA.

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IN WITNESS THEREOF, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

By: _____

Title: _____

Date: _____

[Insert name of Interconnection Customer]

By: _____

Title: _____

Date: _____

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**Attachment A to Appendix 3
Combined Study Agreement**

**ASSUMPTIONS USED IN CONDUCTING THE
INTERCONNECTION SYSTEM IMPACT STUDY**

The Interconnection System Impact Study will be based upon the results of the Interconnection Feasibility Study, subject to any modifications in accordance with Section 4.4 of the SGIP, if one was completed and the following assumptions:

Designation of Point of Interconnection and configuration to be studied.

Designation of alternative Point(s) of Interconnection and configuration.

[Above assumptions to be completed by Interconnection Customer and other assumptions to be provided by Interconnection Customer and Transmission Provider]

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**Attachment B to Appendix 3
Combined Study Agreement**

**INTERCONNECTION CUSTOMER SCHEDULE ~~ELECTION~~ FOR CONDUCTING THE
INTERCONNECTION FACILITIES STUDY**

Transmission Provider shall use Reasonable Efforts to complete the study and issue a draft Interconnection Facilities Study report to Interconnection Customer within the following number of days after of receipt of notice from the Interconnection Customer to proceed with an Interconnection Facilities Study:

- ~~1. ninety (90) Calendar Days with no more than a +/- 20 percent cost estimate contained in the report, or~~
- 2. one hundred eighty (180) Calendar Days with no more than a +15 /-10 percent cost estimate contained in the report.

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**Attachment C to Appendix 3
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**DATA FORM TO BE PROVIDED BY INTERCONNECTION CUSTOMER WITH THE
COMBINED STUDY AGREEMENT**

Provide location plan and simplified one-line diagram of the plant and station facilities. For staged projects, please indicate future generation, transmission circuits, etc.

One set of metering is required for each generation connection to the new ring bus or existing Transmission Provider station. Number of generation connections:

On the one line diagram indicate the generation capacity attached at each metering location. (Maximum load on CT/PT)

On the one line diagram indicate the location of auxiliary power. (Minimum load on CT/PT)
Amps

Will an alternate source of auxiliary power be available during CT/PT maintenance?

Yes No

Will a transfer bus on the generation side of the metering require that each meter set be designed for the total plant generation?

Yes No (Please indicate on one line diagram).

What type of control system or PLC will be located at Interconnection Customer's Generating Facility?

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What protocol does the control system or PLC use?

Please provide a 7.5-minute quadrangle of the site. Sketch the plant, station, transmission line, and property line.

Physical dimensions of the proposed interconnection station:

Bus length from generation to interconnection station:

Line length from interconnection station to Transmission Provider's transmission line.

Tower number observed in the field. (Painted on tower leg)*

Number of third party easements required for transmission lines*:

* To be completed in coordination with Transmission Provider.

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BC Hydro

Open Access Transmission Tariff

Rate Schedules

Effective: 09 December 2010

OATT Attachment M-1 Appendix 3

Effective:

First Revision of Page 11

Is the Generating Facility in the Transmission Provider's service area?

Yes No Local provider: _____

Please provide proposed schedule dates:

Begin Construction Date: _____

Generator step-up transformer
receives back feed power Date: _____

Generation Testing Date: _____

Commercial Operation Date: _____

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