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FOR GENERATIONS

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September 16, 2010

Ms. Erica M. Hamilton Commission Secretary British Columbia Utilities Commission Sixth Floor – 900 Howe Street Vancouver, BC V6Z 2N3

Dear Ms. Hamilton:

RE: British Columbia Utilities Commission (BCUC) British Columbia Hydro and Power Authority (BC Hydro) Open Access Transmission Tariff (OATT) Amendments

I. Application

BC Hydro applies, pursuant to section 59 to 61 of the *Utilities Commission Act* (**UCA**),¹ for approval of amendments to the OATT, and related tariff supplements and rate schedules, to reflect the integration of BC Hydro and British Columbia Transmission Corporation (**BCTC**) pursuant to the *Clean Energy Act*, S.B.C. 2010, c. 16 (**CEA**). As part of this submission, BC Hydro also applies to amend certain provisions of the OATT to reflect other housekeeping items.

BC Hydro also seeks an order from the BCUC granting BC Hydro relief from compliance with the terms of Attachment K (Transmission Planning Process) to BC Hydro's OATT until January 1, 2012. Such relief will allow BC Hydro to fully assess its transmission planning process and determine how it will proceed with compliance with the CEA in conjunction with the UCA and the OATT.

II. Background

BC Hydro implemented a Wholesale Transmission Services (**WTS**) Tariff in 1997 pursuant to BCUC Order Nos. G-31-97 and G-43-98. The WTS Tariff was based on the pro forma open access transmission tariff established by the U.S. Federal Energy Regulatory Commission (**FERC**) for utilities under its jurisdiction by its landmark Order No. 888 dated April 24, 1996.

R.S.B.C. 1996, Chapter 473.

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Pursuant to the *Transmission Corporation Act*, S.B.C. 2003 and certain agreements between BC Hydro and BCTC (the **Key Agreements**), responsibility for offering transmission and generator interconnection services shifted to BCTC in 2003, which subsequently obtained BCUC approval of its own OATT effective April 1, 2005.² The Key Agreements set forth the respective roles and responsibilities of the parties regarding the operation, management, planning and maintenance of the transmission system owned by BC Hydro. Consistent with the Key Agreements, the BCTC OATT distinguished between BCTC as the "Transmission Provider" and BC Hydro as the "Transmission Owner", as defined in the existing OATT. The existing OATT was most recently amended, and approved by the BCUC, on September 10, 2009³ to reflect the pro forma tariff presently established by FERC in Order No. 890 (the **FERC pro forma tariff**).

On June 3, 2010, the CEA received Royal Assent and on July 5, 2010, sections 21 to 33 regarding the integration of BC Hydro and BCTC came into force in accordance with the commencement provisions in section 77 of the CEA. By sections 22 and 23 of the CEA, BCTC's rights, property, assets, included contracts and included permits, and obligations and liabilities transferred by a matter of law to BC Hydro. Thus, BCTC's obligations and liabilities under the previous BCTC OATT, approved by the BCUC, became BC Hydro's on July 5, 2010 and BC Hydro is now the only entity responsible for operating, managing, planning, and maintaining BC Hydro's transmission system and the OATT. Consequently, BC Hydro is now seeking the BCUC's approval to amend the existing OATT, and related tariff supplements and rate schedules, to reflect the integrated company.

III. Overview of Amendments

BC Hydro remains committed to non-discriminatory open access to transmission, consistent with applicable BCUC decisions and FERC reciprocal access standards. As such, with the transfer of BCTC's OATT to BC Hydro on July 5, 2010, certain amendments are required to the OATT, and related tariff supplements and rate schedules, to reflect this change. In addition, BC Hydro also wishes to concurrently amend the OATT to incorporate changes required as a result of the adoption of Mandatory Reliability Standards in British Columbia and some other minor housekeeping items.

The following is a summary of the proposed amendments which are each discussed in greater detail below:

- changes to reflect BC Hydro as the Transmission Provider;
- ² Approved by BCUC Order Nos. G-25-05 and G-58-05 dated March 11, 2005 and June 19, 2005, respectively.

³ Approved by BCUC Order No. G-102-09 dated September 10, 2009.

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- additional FERC 890 pro-forma tariff language required as a result of the Transmission Provider, now BC Hydro, being a vertically integrated utility;
- amendments to Rate Schedules;
- amendments to Tariff Supplements; and
- other housekeeping items, such as revisions required due to the adoption of the Mandatory Reliability Standards (MRS), changes to the OATT to reflect BC Hydro's credit rating practices and other miscellaneous matters.

To assist in understanding the nature of proposed amendments a Table of Changes is included as **Attachment 1**. A clean and a black-lined version of the OATT, with Attachments, and its related Rate Schedules is included as **Attachments 2 and 3**, respectively. Revised Tariff Supplements have been included separately as **Attachment 4**. Included in Attachment 4 is a summary of changes for Tariff Supplement No. 79, and a black-line version of Tariff Supplement No. 80. Neither a summary of changes nor black-line version has been included for Tariff Supplement No. 78 as only one section (section 7.1) remains from the original Tariff Supplement.

A. Changes to reflect BC Hydro as the Transmission Provider

Although not highlighted in the Table of Changes, a number of changes have been made throughout the OATT including changes to the Terms and Conditions, Attachments, Rate Schedules, and Tariff Supplements that replace the name BCTC with the name BC Hydro. This reflects what is accomplished already by section 24(1) of the CEA, which states:

Subject to subsection (2), a reference to the transmission corporation in any document, including, without limitation, any record, security agreement, lease, included permit, included contract, instrument or certificate that relates to anything transferred to the authority under this Part, is deemed to be a reference to the authority.

Moreover, the integration of BCTC and BC Hydro now results in the OATT now no longer requiring a reference to the Transmission Owner because: 1) it is no longer necessary, due to the Key Agreements having no force and effect as confirmed pursuant to section 33 of the CEA, and 2) this distinction from the Transmission Provider is not part of the FERC pro forma tariff. Thus, a number of clauses contained in the OATT are now no longer relevant, or required, and the majority of the proposed modifications to the OATT reflect this change in circumstances. For example, the stand-alone Indemnity Agreement required between BC Hydro, as the Transmission Owner, and an Interconnection Customer in the Standard Generator Interconnection Agreement (**SGIA**) (refer to Appendix 5 of Attachment M-1) is no longer necessary because BC Hydro is now the signatory to the SGIA and article 18 of the SGIA fully

addresses the issue of indemnity. These types of amendments are noted in the Table of Changes.

B. Additional FERC Pro Forma Tariff Language

This category of amendments includes changes and additions to the existing OATT to incorporate FERC pro forma tariff language that was either revised or excluded by BCTC to more appropriately reflect the relationship established pursuant to the Key Agreements, where BCTC had undertaken the responsibilities of the Transmission Provider and BC Hydro continued as the Transmission Owner.

FERC's pro forma tariff is designed primarily for an integrated utility that owns transmission, distribution and generation systems, such as BC Hydro. The FERC pro forma tariff, therefore, includes some language which assumes that the Transmission Provider is the owner and operator of the transmission system as well as the distribution system and generation facilities. For instance, the FERC pro forma tariff includes language to account for the Transmission Provider's own use of transmission service under the tariff.

Language relating to an integrated utility providing transmission services was originally included in BC Hydro's WTS Tariff, but was subsequently removed under BCTC's OATT as it was not applicable when BCTC was the Transmission Provider. As a result of the integration of BCTC and BC Hydro, BC Hydro now seeks to reinsert such applicable FERC pro forma language because BC Hydro is an integrated utility that owns and operates transmission, distribution and generation assets. These changes are reflected in, for instance, sections 8, 13.3, 14.3, 19.2(c), 20 21.1, 25, and 32.2(c) of the OATT.

In addition, the BCTC OATT varied from the FERC pro forma tariff with respect to the Transmission Provider's redispatch obligations because BCTC did not have available its own generation resources. BC Hydro now seeks to include the FERC pro forma tariff language because BC Hydro, as an integrated utility, does have its own generation resources. These changes are reflected in sections 13.5, 15.4(b), 19.3, and 32.3 of the OATT.

Although BC Hydro is incorporating the FERC pro forma language in relation to redispatch in the above-noted sections, BC Hydro's position with respect to the potential for redispatch opportunities continues to be as submitted in BC Hydro's letter dated February 15, 2007 [sic 2008] to the BCUC in response to Directive 39 of BCUC Order No. G-69-07 and as referenced in BCTC's letter dated December 21, 2007 to the BCUC. As noted in its submission, BC Hydro could not make available any surplus generation which could be used for long-term redispatch. The BCUC accepted the submissions of BC Hydro and BCTC in a letter to BCTC dated February 21, 2008 (refer to **Attachment 5** for BCUC letter and accompanying BC Hydro and BCTC submissions).

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C. Amendments to Rate Schedules

The current rate schedules reflect the Transmission Provider-Transmission Owner relationship that existed between BCTC and BC Hydro prior to July 5, 2010 with respect to the provision of transmission and ancillary services. Rate Schedules 00 to 10 for transmission and ancillary services reflect the combination of the Transmission Provider's Rate Schedules 100 to 110, the Transmission Owner's Rate Schedules 3000 to 3002, and BC Hydro's Rate Schedules 3011 to 3016 and Tariff Supplement 69 which supported BCTC's ancillary services. With the integration of BCTC and BC Hydro, it is no longer necessary to distinguish between the Transmission Provider's and the Transmission Owner's Rate Schedules and BC Hydro no longer needs to have separate Rate Schedules to provide support to the Transmission Provider for ancillary services that it can now directly provide to transmission customers.

As such, BC Hydro requests the cancellation of:

- Rate Schedules 100 to 110 and Rate Schedules 3000 to 3002; and
- Rate Schedules 3011 to 3016 and Tariff Supplement 69.

In addition, BC Hydro proposes to amend Rate Schedules 00 to 10 to incorporate any necessary provisions that are included in the Rate Schedules to be cancelled – e.g., rate provisions for ancillary services previously provided by BC Hydro, such as Loss Compensation Service, will now need to be included as part of Rate Schedule 09.

Amendments have also been made to the rate schedules to reflect the implementation of the Harmonized Sales Tax.

D. Amendments to OATT-related Tariff Supplements

The OATT-related tariff supplements, which are attached separately as Attachment 4, are the following:

- 1. Tariff Supplement 1, Canal Plant Agreement (CPA) Support Agreement;
- 2. Tariff Supplement 2, Generating Plant and Operational Obligations Agreement, as amended (**GPOOA**); and
- 3. Tariff Supplement 3, Network Economy Service.

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The CPA Support Agreement⁴ (Tariff Supplement 1) is no longer in force and effect as an agreement and is no longer required for the purposes of BC Hydro meeting its transmission-related obligations under the CPA. However, section 7.1 of the CPA Support Agreement addresses the issue of wheeling rates on the BC Hydro system in relation to the Coordination Transfers, as defined in the CPA, and provides clarification on this issue which is not addressed within the terms of the CPA. Section 7.1 of the CPA provides that:

- a) Coordination Transfers to BC Hydro at the Kootenay Interconnection, will be treated like any other BC Hydro resource under BC Hydro's agreements entered into for service under the OATT; and
- b) Coordination Transfers, and ancillary services pursuant to section 6.7 of the CPA, both of which are to be provided by BC Hydro to the Entitlement Parties at the Kootenay Interconnection, will not be included as BC Hydro network load under BC Hydro's agreements entered into for service under the OATT.

The above noted provisions reflect BC Hydro's view that Coordination Transfers – delivered to the Entitlement Parties under the CPA and which are fundamental to the performance of the CPA obligations – provide benefits to the entire transmission network. As a result of this, BC Hydro believes the residual costs should be borne by all network customers in proportion to each customer's network load. This position was submitted and approved pursuant to BCUC Order No. G-41-06. Currently, as was the case in 2006, BC Hydro is the only network customer and pays all of the residual.

For the reasons above, BC Hydro submits that this part of the CPA Support Agreement should continue to exist in an amended and revised Tariff Supplement (BC Hydro Tariff Supplement 78) as provided in Attachment 4. All other provisions of the CPA Support Agreement are no longer necessary, or required, and will not be included in the new Tariff Supplement 78.

The existing Tariff Supplement 2 is the GPOOA between BC Hydro and BCTC.⁵ The GPOOA addresses: (1) the requirements for interconnection for BC Hydro's generating plants with the transmission system as contained in Part B of the GPOOA; and (2) the operating obligations to be supplied by BC Hydro to BCTC for the reliable operation of the electric system as contained in Part C of the GPOOA. Although a detailed formal agreement, such as this, is no longer required between BC Hydro (as the Interconnection Customer) and the Transmission Provider, BC Hydro believes that there are certain provisions in Part B of the GPOOA, with respect to interconnection issues, which should continue to exist in the form of the proposed Tariff Supplement 79.

⁵ The GPOOA was approved by the BCUC letter dated February 27, 2006. Subsequent amendments were approved by BCUC Order No. G-168-09, dated December 23, 2009.

⁴ Approved by BCUC Order No. G-41-06, dated April 11, 2006.

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Specifically, BC Hydro proposes that: (1) the existing interconnection requirements for its generating plants continue to be approved by the BCUC, and (2) an equivalent interconnection process for modifications to BC Hydro's generating plants, consistent with the OATT, continue as a separate approved process. Attachment 4 includes a clean version of the new Tariff Supplement No. 79 and a summary of changes which provides guidance on what has been modified, deleted or moved.

The existing Tariff Supplement 3 describes the Network Economy Services obligations. BCTC Tariff Supplement 3 has been renamed BC Hydro Tariff Supplement 80. Tariff Supplement 80 remains largely unchanged with the exception of changes to certain provisions to reflect the fact that BC Hydro is an integrated utility. The proposed changes uphold the spirit and obligations of the Settlement Agreement approved pursuant to BCUC Order No. G-127-06. Attachment 4 includes a clean and black-line version of this Tariff Supplement No. 80

E. Other Housekeeping Items

In Order No. G-67-09, dated June 8, 2009, the BCUC MRS for British Columbia that include applicable reliability standards for certain generators. Where appropriate, BC Hydro has made changes to the OATT to replace outdated reliability requirements with terms and conditions which are consistent with the MRS framework now applicable in B.C. – e.g., Attachments M-1 (Standard Generator Interconnection Procedures) and Q-1 (Dynamic Scheduling).

In addition, BC Hydro has made minor changes to the insurance provisions in Attachment M-1 (Standard Generator Interconnection Procedures) of the OATT (refer to Appendix 5, section 18.3). The insurance provisions contained in Attachment M-1 are FERC pro forma language and through the review process of this filing it was determined that minor changes were required to more accurately reflect applicable Insurance Corporation of British Columbia policies for automobile insurance.

BC Hydro has also made changes to the credit practices applied by BCTC to align with BC Hydro credit procedures (refer to Attachment L) and has made changes to reflect the adoption of the Harmonized Sales Tax.

IV. Relief from Attachment K

BC Hydro is seeking an order from the BCUC granting BC Hydro relief from compliance with the terms of Attachment K (Transmission Planning Process) to BC Hydro's OATT until January 1, 2012.

Attachment K to the OATT was approved by the BCUC in Order No. G-102-09, dated September 10, 2009. Attachment K outlines a process to be followed by BC Hydro when planning projects for the purpose of expanding the capability of the transmission system.

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As discussed above, pursuant to the CEA, BC Hydro has taken over the responsibilities of BCTC, including the Attachment K obligations. In addition, the CEA provides that BC Hydro is required to prepare an integrated resource plan that includes, among other things, plans respecting the construction or extension of facilities. As a result of this development and new requirements, BC Hydro is assessing its planning process and determining how it will proceed with compliance with the CEA in conjunction with the UCA and the OATT.

Consequently, BC Hydro is requesting relief from the Attachment K process until January 1, 2012, at which time BC Hydro will have submitted its first integrated resource plan in compliance with section 3(6)(a) of CEA. BC Hydro will also have a better understanding of its planning processes going forward and will seek approval, as required, for any changes to Attachment K that may be necessary.

V. Conclusion

The nature of the majority of the proposed amendments described above primarily reflect the integration of BCTC and BC Hydro. BC Hydro has also taken the opportunity to make some general housekeeping changes to update provisions dealing with insurance and credit requirements, MRS and applicable taxes. BC Hydro's proposed OATT revisions are entirely consistent with the FERC pro forma tariff established by its Order No. 890 and do not introduce substantive changes to the existing OATT Terms and Conditions, Attachments, Rates Schedules and related Tariff Supplements.

The proposed amendments do not impact the service levels or the rights of OATT customers. Therefore, BC Hydro does not believe that customer consultation with respect to the amendments is required.

For the reasons stated above, BC Hydro proposes that a public process is not necessary for the BCUC to approve this application. A draft Order is included as **Attachment 6** of this application.

The proposed amendments would be effective immediately upon approval by the BCUC and will be applied on a go-forward basis to all new and existing customers.

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For further information, please contact Janet Fraser at 604-623-4176.

Yours sincerely,

Joanna Sofield Chief Regulatory Officer

gd/ma

Enclosures (6)

c. BCOAPO Capital Power Corporation Cargill Enmax IPPBC JIESC Morgan Stanley NorthPoint Powerex Teck Metals TransAlta

List of Attachments

- Attachment 1 Table of Changes
- Attachment 2 Clean Version of OATT Terms and Conditions, Attachments and Rate Schedules
- Attachment 3 Black-lined Version of OATT Terms and Conditions, Attachments and Rate Schedules
- Attachment 4 Revised Tariff Supplements
- Attachment 5 Correspondence
- Attachment 6 Draft Order

OATT Amendments

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Attachment 1

Table of Changes

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		Int	Integration Amendments	ments	General Housekeeping
OATT Section	Title or Subject	Change to reflect BC Hydro as Transmission Provider	Incorporation of FERC 890 pro forma language	Change to Reflect Cancellation of Rate Schedule or Tariff Supplement	Housekeeping (e.g., Changes to Reflect Adoption of MRS and Current Business Practices)
1.49.1	Transmission Owner	•			
1.50	Transmission Provider	•			
3	Ancillary Services			•	
	Scheduling, System Control			•	
0.1	Boodive Supplier				
3.2	Keactive Supply and Voltage Control			•	
3.3	Regulation and Frequency Response Service			•	
3.4	Energy Imbalance			•	
L	Operating Reserve -			•	
3.5					
	Operating Reserve - Supplemental Reserve			•	
3.6	Service				
6	Reciprocity	•			
(Interest on Unpaid				•
7.2	Balances				,
	Accounting for				
ω	Transmission Providers Use of the Tariff	•	•		
8.1	Transmission Revenues	•	•		

		Int	Integration Amendments	ments	General Housekeeping
OATT Section	Title or Subject	Change to reflect BC Hydro as Transmission Provider	Incorporation of FERC 890 pro forma language	Change to Reflect Cancellation of Rate Schedule or Tariff Supplement	Housekeeping (e.g., Changes to Reflect Adoption of MRS and Current Business Practices)
8.2	Study Costs and Revenues	•	•		
10.2	Indemnification	•			
10.3	Limitation of Liability	•			
13.3	Use of Firm I ransmission Service by the Transmission Provider	•	•		
	Transmission Customer				
	Obligations for Facility				
13 E	Additions or Redispatch		•		
0.01	Ousis Phoneifination of Firm				
13.7 (c)	Transmission Service			•	
	Use of Non-Firm Point-To-				
	Point Transmission Service	•	•		
14.3	by the Transmission Provider				
14.5	Classification of Non- Firm Transmission Service			•	
	Obligation to Provide				
	Transmission Service that				
	Require Expansion or				
	Modification of the		•		
	Transmission System,				
15.4 (b)	Redispatch or Conditional Curtailment				
15.7	Real Power Losses			•	•

		Inte	Integration Amendments	Iments	General Housekeeping
OATT Section	Title or Subject	Change to reflect BC Hydro as Transmission Provider	Incorporation of FERC 890 pro forma language	Change to Reflect Cancellation of Rate Schedule or Tariff Supplement	Housekeeping (e.g., Changes to Reflect Adoption of MRS and Current Business Practices)
19.2 (c)	System Impact Study Agreement and Cost Reimbursement	•	•		
19.3	System Impact Study Procedures		•		
21.1	Provisions Relating to Transmission Construction Services on the Systems of Other Utilities		•		
23.2	Limitations on Assignment of Transfer Service		•		
25	Compensation for Transmission Service		•	•	
28.5	Real Power Losses			•	
32.2 (c)	System Impact Study Agreement and Cost Reimbursement	•	•		
32.3	System Impact Study Procedures	•	•		
35.2	Network Operating Agreement				•
Attachments					
Attachment A					
4.2	Billing & Payment				•

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OATT Section	Title or Subject	Change to reflect BC Hydro as Transmission Provider	Incorporation of FERC 890 pro forma language	Change to Reflect Cancellation of Rate Schedule or Tariff Supplement	Housekeeping (e.g., Changes to Reflect Adoption of MRS and Current Business Practices)
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1 (a)	Operating Reserve				•
Attachment L					
	Preamble				•
3 (i)	Creditworthiness				•
3 (ii)	Creditworthiness				•
Attachment M-1					
1.0	Applicable Reliability Council				•
	Applicable Reliability Standards				•
	Control Area				•
	Interest				•
	NERC				•
	Reliability Management System				٠
	Transmission Provider	•			
13.1	Confidentiality				•
Attachment M-1 Appendix 5					
1.0	Applicable Reliability Council				•

		Int	Integration Amendments	dments	General Housekeeping
		Change to reflect BC Hydro as Transmission	Incorporation of FERC 890 pro forma	Change to Reflect Cancellation of Rate Schedule or	Housekeeping (e.g., Changes to Reflect Adoption of MRS and Current
OATT Section	Title or Subject	Provider	language	Tariff Supplement	Business Practices)
	Applicable Reliability Standards				•
	Control Area				•
	Effective Date	•			
	NERC				•
	Reliability Management System				•
	Technical Interconnection				
	Requirements				•
	Transmission Owner	•			
	WECC				•
2.1	Effective Date	•			
2.3.3	RMS Provisions				•
2.3.4	Termination Procedures				•
5.4	Power System Stabilizers				•
9.1	Operations - General				•
11.3	Network Upgrades	•			
11.5	Provisions of Security	•			
13.2	Obligations				•
18.3.5	Insurance				•
18.3.10	Insurance				•
	Indemnity in Favour of	•			
18.4	Transmission Owner	•			
24.1	Information Acquisition				•
30.5	No Third Party Beneficiaries	•			
Appendix F to M-1 Appendix 5	WECC RMS Agreement				•

		Int	Integration Amendments	dments	General Housekeeping
OATT Section	Title or Subject	Change to reflect BC Hydro as Transmission Provider	Incorporation of FERC 890 pro forma language	Change to Reflect Cancellation of Rate Schedule or Tariff Supplement	Housekeeping (e.g., Changes to Reflect Adoption of MRS and Current Business Practices)
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5 (d) iv	Multiple CEAPs	•			
5(f)(ii)	Multiple CEAPs				
Attachment O					
III. D. 2. (b)	Network Upgrades	•			
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1. (h)	NERC				•
2. (a)	Availability of Dynamic Scheduling Transmission				•
3. (h)	Eligibility Requirements				•
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Tariff Supplement 79	GPOOA	•			
Tariff Supplement 80	Network Economy Service	•			
Rate Schedules					
Rate Schedule 00				•	
Rate Schedule 01				•	

		Int	Integration Amendments	ments	General Housekeeping
OATT Section	Title or Subject	Change to reflect BC Hydro as Transmission Provider	Incorporation of FERC 890 pro forma language	Incorporation Change to Reflect of FERC 890 Cancellation of pro forma Rate Schedule or language Tariff Supplement	Housekeeping (e.g., Changes to Reflect Adoption of MRS and Current Business Practices)
Rate Schedule 02				•	
Rate Schedule 06				•	
Rate Schedule 09				•	

OATT Amendments

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Attachment 2

Clean Version of OATT Terms and Conditions, Attachments and Rate Schedules

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

Open Access Transmission Tariff (OATT)

ACCEPTED:_____

ORDER NO._____

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List of Attachments

Attachment A:	Umbrella Agreement for Short-Term Firm or Non-Firm Point-To-Point Transmission Service
Attachment A-1:	Form of Service Agreement for the Resale, Reassignment or Transfer of Short-Term Firm Point-To-Point Transmission Service
Attachment B.	Form of Service Agreement for Long-Term Firm Point-To-Point Transmission Service

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COMMISSION SECRETARY

- Attachment B-1: Form of Service Agreement for the Resale, Reassignment or Transfer of Long-Term Firm Point-To-Point Transmission Service
- Attachment C: Methodology To Assess Available Transfer Capability
- Attachment D: Methodology for Completing a System Impact Study
- Attachment E: Index of Point-To-Point Transmission Service Customers
- Attachment F: Form of Service Agreement for Network Integration Transmission Service
- Attachment G: Network Operating Agreement
- Attachment H: Annual Transmission Revenue Requirement for Network Integration Transmission Service
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- Attachment P: Contingency Resource Plans (CRP) and Release of Capacity Not Required by Network Integration Transmission Service (NITS)
- Attachment Q-1: Dynamic Scheduling
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- Attachment Q-4: Mixed Class Wheelthrough Service
- Attachment Q-5: Wheeling Rights Under Fortis BC Inc.'s Tariff Supplement No. 9

List of Tariff Supplements

Tariff Supplement78: Wheeling for Canal Plant Agreement Coordination Transfers

Tariff Supplement79: BC Hydro Generating Plant Interconnections

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Tariff Supplement 80: Network Economy Service

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- Schedule 07: Operating Reserve (OR) Spinning Reserve Service
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- Schedule 09: Loss Compensation Service
- Schedule 10: Real Power Losses

PART I. COMMON SERVICE PROVISIONS

1. Definitions

1.1 Affiliate

With respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

1.2 Ancillary Services

Those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

1.3 Annual Transmission Costs

The total annual cost of the Transmission System for purposes of Network Integration Transmission Service shall be the amount specified in Attachment H until amended by the Transmission Provider or modified by the Commission.

1.4 Application

A request by an Eligible Customer for transmission service pursuant to the provisions of the Tariff.

1.4.1 Business Day

Monday through Friday, excluding Statutory Holidays.

1.4.2 Calendar Day

Any day including Saturday, Sunday or a Statutory Holiday.

ACCEPTED:

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1.5 Commission

The British Columbia Utilities Commission.

1.6 Completed Application

An Application that satisfies all of the information and other requirements of the Tariff, including any required deposit.

1.7 Control Area

An electric power system or combination of electric power systems to which a common automatic generation control scheme is applied in order to:

- (a) match, at all times, the power output of the generators within the electric power system(s) and capacity and energy purchased from entities outside the electric power system(s), with the load within the electric power system(s);
- (b) maintain scheduled interchange with other Control Areas, within the limits of Good Utility Practice;
- (c) maintain the frequency of the electric power system(s) within reasonable limits in accordance with Good Utility Practice; and
- (d) provide sufficient generating capacity to maintain operating reserves in accordance with Good Utility Practice.

1.8 Curtailment

A reduction in firm or non-firm transmission service in response to a transfer capability shortage as a result of system reliability conditions.

1.9 Delivering Party

The entity supplying capacity and energy to be transmitted at Point(s) of Receipt.

ACCEPTED:_____

1.10 Designated Agent

Any entity that performs actions or functions on behalf of the Transmission Provider, an Eligible Customer, or the Transmission Customer required under the Tariff.

1.11 Direct Assignment Facilities

Facilities or portions of facilities that are constructed by the Transmission Provider for the sole use/benefit of a particular Transmission Customer requesting service under the Tariff. Direct Assignment Facilities shall be specified in the Service Agreement that governs service to the Transmission Customer and may require Commission approval.

1.11.1 Direct Damages

Direct damage or loss excluding loss of profit, loss of revenue, loss of production, loss of earnings, loss of contract or any other incidental, consequential, punitive, special, exemplary, or indirect loss or damage whatsoever.

1.12 Eligible Customer

(i) Any electric utility (including the Transmission Provider and any power marketer or US Federal power marketing agency), or any person generating electric energy for sale for resale is an Eligible Customer under the Tariff. Electric energy sold or produced by such entity may be electric energy produced in Canada, the United States or Mexico; however, such entity is not eligible for transmission service that would be prohibited by Section 212(h)(2) of the US Federal Power Act; and (ii) Any retail customer taking unbundled transmission service for all or part of its energy purchase pursuant to a provincial requirement that the Transmission Provider offer the transmission service, or pursuant to a voluntary offer of such service by the Transmission Provider, is an Eligible Customer under the Tariff.

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1.12.1 Energy Resource Interconnection Service

An Interconnection Service that allows the Interconnection Customer to connect its Generating Facility to the Transmission Provider's Transmission System to be eligible to deliver the Generating Facility's electric output using the existing firm or non-firm capacity of the Transmission Provider's Transmission System on an as available basis. Energy Resource Interconnection Service in and of itself does not convey Transmission Service.

1.13 Facilities Study

An engineering study conducted by the Transmission Provider to determine the required modifications to the Transmission Provider's Transmission System, including the cost and scheduled completion date for such modifications, that will be required to provide the requested transmission service.

1.14 Firm Point-To-Point Transmission Service

Transmission Service under this Tariff that is reserved and/or scheduled between specified Points of Receipt and Delivery pursuant to Part II of this Tariff.

1.15 Good Utility Practice

Any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region, including any reliability

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standards adopted by the Commission pursuant to section 125.2 of the British Columbia Utilities Commission Act.

1.16 Interruption

A reduction in non-firm transmission service due to economic reasons pursuant to Section 14.7.

1.17 Load Ratio Share

Ratio of a Network Customer's monthly Network Load to the Transmission Provider's monthly Transmission System load computed in accordance with Sections 34.2 and 34.3 of the Network Integration Transmission Service under Part III of the Tariff and calculated on a monthly basis.

1.18 Load Shedding

The systematic reduction of system demand by temporarily decreasing load in response to transmission system or area capacity shortages, system instability, or voltage control considerations under Part III of the Tariff.

1.19 Long-Term Firm Point-To-Point Transmission Service

Firm Point-To-Point Transmission Service under Part II of the Tariff with a term of one (1) year or more.

1.20 Reserved

1.21 Network Customer

An entity receiving transmission service pursuant to the terms of the Transmission Provider's Network Integration Transmission Service under Part III of the Tariff.

ACCEPTED:

1.22 Network Integration Transmission Service

The transmission service provided under Part III of the Tariff.

1.23 Network Load

The load that a Network Customer designates for Network Integration Transmission Service under Part III of the Tariff. The Network Customer's Network Load shall include all load served by the output of any Network Resources designated by the Network Customer. A Network Customer may elect to designate less than its total load as Network Load. If a Network Customer designates only part of the load at a discrete Point of Delivery, the Network Customer and the Transmission Provider must agree on a metering procedure to separate the part of load that is served by the Network Customer's NITS and the part of load that is served by a separate Point-To-Point Transmission Service. Where an Eligible Customer has elected not to designate a particular load at discrete points of delivery as Network Load, the Eligible Customer is responsible for making separate arrangements under Part II of the Tariff for any Point-To-Point Transmission Service that may be necessary for such non-designated load.

1.24 Network Operating Agreement

An executed agreement that contains the terms and conditions under which the Network Customer shall operate its facilities and the technical and operational matters associated with the implementation of Network Integration Transmission Service under Part III of the Tariff.

1.25 Network Operating Committee

A group made up of representatives from the Network Customer(s) and the Transmission Provider established to coordinate operating criteria and other technical considerations required for implementation of Network Integration Transmission Service under Part III of this Tariff.

ACCEPTED:

1.26 Network Resource

Any designated generating resource owned, purchased or leased by a Network Customer under the Network Integration Transmission Service Tariff. Network Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis, except for purposes of fulfilling obligations under a reserve sharing program.

1.26.1 Network Resource Interconnection Service

An Interconnection Service that allows the Interconnection Customer to integrate its Generating Facility with the Transmission Provider's Transmission System in the same manner as all other Network Resources. Network Resource Interconnection Services in and of itself does not convey Transmission Service.

1.27 Network Upgrades

Modifications or additions to transmission-related facilities that are integrated with and support the Transmission Provider's overall Transmission System for the general benefit of all users of such Transmission System.

1.28 Non-Firm Point-To-Point Transmission Service

Point-To-Point Transmission Service under the Tariff that is reserved and scheduled on an as-available basis and is subject to Curtailment or Interruption as set forth in Section 14.7 under Part II of this Tariff. Non-Firm Point-To-Point Transmission Service is available on a stand-alone basis for periods ranging from one (1) hour to less than one (1) year.

ACCEPTED:_____

1.29 Non-Firm Sale

An energy sale for which receipt or delivery may be interrupted for any reason or no reason, without liability on the part of either the buyer or seller.

1.30 Open Access Same-Time Information System (OASIS)

An information system operated by or for the Transmission Provider that satisfies North American industry standards (including those prescribed for US electric utilities by the Federal Energy Regulatory Commission (FERC)) and all Commission requirements (including standards of conduct).

1.31 Part I

Tariff Definitions and Common Service Provisions contained in Sections 2 through 12.

1.32 Part II

Tariff Sections 13 through 27 pertaining to Point-To-Point Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.33 Part III

Tariff Sections 28 through 35 pertaining to Network Integration Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.34 Parties

The Transmission Provider and the Transmission Customer receiving service under the Tariff.

ACCEPTED:

1.35 Point(s) of Delivery

Point(s) on the Transmission Provider's Transmission System where capacity and energy transmitted by the Transmission Provider will be made available to the Receiving Party under Part II of the Tariff. The Point(s) of Delivery shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

1.36 Point(s) of Receipt

Point(s) of interconnection on the Transmission Provider's Transmission System where capacity and energy will be made available to the Transmission Provider by the Delivering Party under Part II of the Tariff. The Point(s) of Receipt shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

1.37 Point-To-Point Transmission Service

The reservation and transmission of capacity and energy on either a firm or non-firm basis from the Point(s) of Receipt to the Point(s) of Delivery under Part II of the Tariff.

1.38 Power Purchaser

The entity that is purchasing the capacity and energy to be transmitted under the Tariff.

1.39 **Pre-Confirmed Application**

An Application that commits the Eligible Customer to execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service.

1.40 Receiving Party

The entity receiving the capacity and energy transmitted by the Transmission Provider to Point(s) of Delivery.

ACCEPTED:

1.41 Regional Transmission Group (RTG)

A voluntary organization of transmission owners, transmission users and other entities formed to efficiently coordinate transmission planning (and expansion), operation and use on a regional (and interregional) basis.

1.42 Reserved Capacity

The maximum amount of capacity of energy that the Transmission Provider agrees to transmit for the Transmission Customer over the Transmission Provider's Transmission System between the Point(s) of Receipt and the Point(s) of Delivery under Part II of the Tariff. Reserved Capacity shall be expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis.

1.43 Service Agreement

The initial agreement and any amendments or supplements thereto entered into by the Transmission Customer and the Transmission Provider for Long-Term Firm Point-To-Point or Network Integration Transmission Service under the Tariff, and any requests for Short-Term Firm or Non-Firm Point-To-Point Transmission Service made pursuant to an Umbrella Agreement and confirmed over the Transmission Provider's OASIS.

1.44 Service Commencement Date

The date the Transmission Provider begins to provide service pursuant to the terms of an executed Service Agreement, or the date the Transmission Provider begins to provide service in accordance with Section 15.3 or Section 29.1 under the Tariff.

1.45 Short-Term Firm Point-To-Point Transmission Service

Firm Point-To-Point Transmission Service under Part II of the Tariff with a minimum term of one (1) hour and a maximum term of less than one (1) year.

ACCEPTED:

ORDER NO._____

1.46 Reserved

1.47 System Impact Study

An assessment by the Transmission Provider of (i) the adequacy of the Transmission System to accommodate a request for either Firm Point-To-Point Transmission Service or Network Integration Transmission Service; and (ii) whether any additional costs may be incurred in order to provide transmission service.

1.48 Third-Party Sale

Any sale for resale to a Power Purchaser that is not designated as part of Network Load under the Network Integration Transmission Service.

1.49 Transmission Customer

Any Eligible Customer (or its Designated Agent) that (i) executes a Service Agreement; (ii) receives service under an Umbrella Agreement; or (iii) requests in writing that the Transmission Provider file with the Commission, a proposed unexecuted Service Agreement to receive transmission service under Part II of the Tariff. This term is used in the Part I Common Service Provisions to include customers receiving transmission service under Part II and Part III of this Tariff.

1.50 Transmission Provider

The British Columbia Hydro and Power Authority (BC Hydro).

1.51 Transmission Provider's Monthly Transmission System Peak

The maximum firm usage expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis, of the Transmission Provider's Transmission System in a calendar month.

ACCEPTED:

1.52 Transmission Service

Point-To-Point Transmission Service provided under Part II of the Tariff on a firm and non-firm basis and Network Integration Transmission Service provided under Part III of the Tariff.

1.53 Transmission System

The facilities owned, controlled or operated by the Transmission Provider that are used to provide transmission service under Part II and Part III of the Tariff.

1.54 Umbrella Agreement

An agreement between the Transmission Provider and an Eligible Customer which provides all the information necessary to enable such Eligible Customer to receive Short-Term Firm or Non-Firm Point-To-Point Transmission Service under this Tariff without the necessity of first executing a Service Agreement. A form of Umbrella Agreement is attached as Attachment A.

1.55 Working Day

Any day in the week excluding weekends and as specified in the Transmission Provider's business practices.

1.56 \$ or Dollar

All dollar amounts in the Tariff are in Canadian dollars unless otherwise specified.

ACCEPTED:_____

2. Renewal Procedures

2.1 Reserved

2.2 Reservation Priority For Existing Firm Service Customers

Unless stated otherwise in the initial Service Agreement in accordance with Section 5 of Attachment B, existing firm service customers with a contract term of five-years or more, have the right to continue to take transmission service from the Transmission Provider when the contract expires, rolls over or is renewed. If at the end of the contract term, the Transmission Provider's Transmission System cannot accommodate all of the requests for transmission service, the existing firm service customer must agree to accept a contract term at least equal to a competing request by any new Eligible Customer and to pay the current just and reasonable rate, as approved by the Commission, for such service; provided that, the firm service customer shall have a right of first refusal at the end of such service only if the new contract is for five years or more. The existing firm service customer must provider whether it will exercise its right of first refusal no less than one year prior to the expiration date of its transmission service agreement. Subject to Attachment P this transmission reservation priority for existing firm service customers is an ongoing right that may be exercised at the end of all firm contract terms of five years or longer.

2.2.1 Transition

Service agreements subject to a right of first refusal entered into prior to the date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission or associated with a transmission service request received prior to the date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission, unless terminated, will become subject to the five year/one year requirement on the first rollover date after the date new rate schedules of the Transmission Provider adopting the reformed rollover adopting the reformed rollover subject to the five year/one year requirement on the first rollover date after the date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission; provided the reformed rollover language herein are made effective by the Commission; provided the reformed rollover language herein are made effective by the Commission; provided the reformed rollover language herein are made effective by the Commission; provided the reformed rollover language herein are made effective by the Commission; provided

ACCEPTED:

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that, the one-year notice requirement shall apply to such service agreements with five years or more left in their terms as of the date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission.

3. Ancillary Services

Ancillary Services are needed with transmission service to maintain reliability within and among the Control Areas affected by the transmission service. The Transmission Provider is required to provide, and the Transmission Customer is required to purchase, the following Ancillary Services: (i) Scheduling, System Control and Dispatch; and (ii) Reactive Supply and Voltage Control from Generation or other Sources.

The Transmission Provider is required to offer to provide the following Ancillary Services only to the Transmission Customer serving load within the Transmission Provider's Control Area: (i) Regulation and Frequency Response; (ii) Energy Imbalance; (iii) Operating Reserve - Spinning; and (iv) Operating Reserve – Supplemental. The Transmission Customer serving load within the Transmission Provider's Control Area is required to acquire these Ancillary Services, whether from the Transmission Provider, from a third party, or by self-supply.

The Transmission Customer may not decline the Transmission Provider's offer of Ancillary Services unless it demonstrates that it has acquired the Ancillary Services from another source. The Transmission Customer must inform the Transmission Provider which Ancillary Services it will purchase from the Transmission Provider prior to the commencement of service requested. A Transmission Customer that exceeds its firm reserved capacity at any Point of Receipt or Point of Delivery or an Eligible Customer that uses Transmission Service at a Point of Receipt or Point of Delivery that it has not reserved is required to pay for all of the Ancillary Services identified in this section that were provided by the Transmission Provider associated with the unreserved service.

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The Transmission Customer or Eligible Customer will pay for Ancillary Services based on the amount of transmission service it used but did not reserve.

The Transmission Provider shall specify the rate treatment and all related terms and conditions in the event of an unauthorized use of Ancillary Services by the Transmission Customer in the applicable Transmission Provider Rate Schedule 03 through Rate Schedule 09.

The specific Ancillary Services, prices and/or compensation methods are described on the Schedules that are attached to and made a part of the Tariff. Three principal requirements apply to discounts for Ancillary Services provided by the Transmission Provider in conjunction with its provision of transmission service as follows: (i) any offer of a discount made by the Transmission Provider must be announced to all Eligible Customers solely by posting on the OASIS; (ii) any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an Affiliate's use) must occur solely by posting on the OASIS; and (iii) once a discount is negotiated, details must be immediately posted on the OASIS. A discount agreed upon for an Ancillary Service must be offered for the same period to all Eligible Customers on the Transmission Provider's system. Sections 3.1 through 3.6 below list the six Ancillary Services.

3.1 Scheduling, System Control and Dispatch Service

The rates and/or methodology are described in Rate Schedule 03. The Transmission Provider will provide dynamic scheduling in accordance with Attachment Q-1.

3.2 Reactive Supply and Voltage Control from Generation or Other Sources Service

The rates and/or methodology are described in Rate Schedule 04.

3.3 Regulation and Frequency Response Service

Where applicable the rates and/or methodology are described in Rate Schedule 05.

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3.4 Energy Imbalance Service

Where applicable the rates and/or methodology are described in Rate Schedule 06.

3.5 Operating Reserve - Spinning Reserve Service

Where applicable the rates and/or methodology are described in Rate Schedule 07.

3.6 Operating Reserve - Supplemental Reserve Service

Where applicable the rates and/or methodology are described in Rate Schedule 08.

4. Open Access Same-Time Information System (OASIS)

The Transmission Provider will follow North American industry standard terms and conditions (including those prescribed for US electric utilities by the FERC) and Commission requirements (including standards of conduct) in implementing, operating or utilizing the OASIS. In the event available transfer capability as posted on the OASIS is insufficient to accommodate a request for firm transmission service, additional studies may be required as provided by this Tariff pursuant to Sections 19 and 32.

The Transmission Provider shall post on OASIS and its public website an electronic link to all rules, standards and practices that (i) relate to the terms and conditions of transmission service, (ii) are not subject to a North American Energy Standards Board (NAESB) copyright restriction, and (iii) are not otherwise included in this Tariff. The Transmission Provider shall post on OASIS and on its public website an electronic link to the NAESB website where any rules, standards and practices that are protected by copyright may be obtained. The Transmission Provider shall also post on OASIS and its public website an electronic link to a statement of the process by which the Transmission Provider shall add, delete or otherwise modify the rules, standards and practices that are not included in this tariff. Such process shall set forth the means by which the Transmission Customers and Eligible Customers of any such additions, deletions or modifications, the

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associated effective date, and any additional implementation procedures that the Transmission Provider deems appropriate.

5. Jurisdiction

5.1 Applicable Law

This Tariff shall be governed by and construed in accordance with the laws of the Province of British Columbia.

5.2 Modification of the Tariff

The rates, terms and conditions of this Tariff are subject to decisions, orders, rules and regulations of the Commission and may be amended from time to time.

5.3 Export Permits or Licence

The Transmission Provider may refuse to provide Transmission Service to facilitate the export of electricity from Canada if BC Hydro has not been supplied with a copy of the exporter's permit or licence issued by the National Energy Board.

6. Reciprocity

A Transmission Customer receiving transmission service under this Tariff agrees to provide comparable transmission service that it is capable of providing to the Transmission Provider on similar terms and conditions over facilities used for the transmission of electric energy owned, controlled or operated by the Transmission Customer and over facilities used for the transmission of electric energy owned, controlled or operated by the Transmission Customer's corporate Affiliates. A Transmission Customer that is a member of, or takes transmission service from, a power pool, Regional Transmission Group, Regional Transmission Organization (RTO), Independent System Operator (ISO) or other transmission organization also agrees to provide comparable transmission service to the transmission-owning members of such

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power pool and Regional Transmission Group, RTO, ISO or other transmission organization on similar terms and conditions over facilities used for the transmission of electric energy owned, controlled or operated by the Transmission Customer and over facilities used for the transmission of electric energy owned, controlled or operated by the Transmission Customer's corporate Affiliates.

This reciprocity requirement applies not only to the Transmission Customer that obtains transmission service under the Tariff, but also to all parties to a transaction that involves the use of transmission service under the Tariff, including the power seller, buyer and any intermediary, such as a power marketer. This reciprocity requirement also applies to any Eligible Customer that owns, controls or operates transmission facilities that uses an intermediary, such as a power marketer, to request transmission service under the Tariff. If the Transmission Customer does not own, control or operate transmission facilities, it must include in its Application a sworn statement of one of its duly authorized officers or other representatives that the purpose of its Application is not to assist an Eligible Customer to avoid the requirements of this provision.

The requirements of this Section may be waived by the Transmission Provider for good cause shown.

7. Billing and Payment

7.1 Billing Procedure

Within a reasonable time after the first day of each month, the Transmission Provider shall submit an invoice to the Transmission Customer for the charges for all services furnished under the Tariff during the preceding month. The invoice shall be paid by the Transmission Customer within twenty (20) Calendar Days of receipt. All payments shall be made in immediately available funds payable to the Transmission Provider, or by wire transfer to a bank named by the Transmission Provider.

ACCEPTED:

7.2 Interest on Unpaid Balances

Interest on any unpaid amounts (including amounts placed in escrow) shall be calculated based on the procedures defined in the Transmission Provider's Business Practices. Interest on delinquent amounts shall be calculated from the due date of the bill to the date of payment. When payments are made by mail, bills shall be considered as having been paid on the date of receipt by the Transmission Provider.

7.3 Customer Default

In the event the Transmission Customer fails, for any reason other than a billing dispute as described below, to make payment to the Transmission Provider on or before the due date as described in Section 7.1, and such failure of payment is not corrected within thirty (30) Calendar Days after the Transmission Provider notifies the Transmission Customer to cure such failure, a default by the Transmission Customer shall be deemed to exist. Upon the occurrence of a default, the Transmission Provider may suspend service to the customer in accordance with Attachment L. In the event of a billing dispute between the Transmission Provider and the Transmission Customer, the Transmission Provider will continue to provide service under the Service Agreement or Umbrella Agreement as long as the Transmission Customer (i) continues to make all payments not in dispute, and (ii) pays into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If the Transmission Customer fails to meet these two requirements for continuation of service, then the Transmission Provider may provide notice to the Transmission Customer of its intention to suspend service in sixty (60) Calendar Days.

8. Accounting for the Transmission Provider's Use of the Tariff

The Transmission Provider shall record the following amounts, as outlined below.

8.1 Transmission Revenues

Include in a separate operating revenue account or subaccount the revenues it receives from Transmission Service when making Third-Party Sales under Part II of the Tariff.

8.2 Study Costs and Revenues

Include in a separate transmission operating expense account or subaccount, costs properly chargeable to expenses that are incurred to perform any System Impact Studies or Facilities Studies which the Transmission Provider conducts to determine if it must construct new transmission facilities or upgrades necessary for its own uses, including making Third-Party Sales under the Tariff; and include in a separate operating revenue account or subaccount the revenues received for System Impact Studies or Facilities Studies performed when such amounts are separately stated and identified in the Transmission Customer's billing under the Tariff.

9. Regulatory Filings

Nothing contained in the Tariff or any Service Agreement shall be construed as affecting in any way the right of the Transmission Provider to unilaterally make application to the Commission for a change in rates, terms and conditions, charges, classification of service, Service Agreement, rule or regulation pursuant to the British Columbia Utilities Commission Act and the Commission's decisions, orders, rules and regulations promulgated there under.

Nothing contained in the Tariff or any Service Agreement shall be construed as affecting in any way the ability of any Party receiving service under the Tariff to exercise its rights under the British Columbia Utilities Commission Act and pursuant to the Commission's decisions, orders, rules and regulations promulgated thereunder.

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10. Force Majeure, Indemnification, and Limitation of Liability

10.1 Force Majeure

An event of Force Majeure means any act of God, labour disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any Curtailment, order, regulation or restriction imposed by governmental military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include an act of negligence or intentional wrongdoing. Neither the Transmission Provider nor the Transmission Customer will be considered in default as to any obligation under this Tariff if prevented from fulfilling the obligation due to an event of Force Majeure. However, a Party whose performance under this Tariff is hindered by an event of Force Majeure shall make all reasonable efforts to perform its obligations under this Tariff.

10.2 Indemnification

The Transmission Customer shall at all times indemnify, defend, and save the Transmission Provider harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, legal fees, and all other obligations by or to third parties, arising out of or resulting from the Transmission Provider's performance of its obligations under this Tariff on behalf of the Transmission Customer, except in cases of gross negligence or intentional wrongdoing by the Transmission Provider.

10.3 Limitation of Liability

(a) The Transmission Provider shall not be liable, whether based on contract, indemnification, warranty, tort, strict liability or otherwise, for any damages whatsoever, including, without limitation, Direct Damages, incidental, consequential, punitive, special, exemplary or indirect damages arising or resulting

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from any act or omission in any way associated with service provided under this Tariff, including, but not limited to, any act or omission that results in an interruption, deficiency or imperfection of service, except to the extent that the Transmission Provider is found liable for gross negligence or intentional misconduct, in which case the Transmission Provider's liability will be limited to Direct Damages.

(b) The Transmission Provider shall not be liable for damages arising out of services provided under this Tariff, including, but not limited to, any act or omission that results in an interruption, deficiency or imperfection of service, occurring as a result of conditions or circumstances beyond the control of the Transmission Provider, as applicable, or resulting from electric system design common to the domestic electric utility industry or electric system operation practices or conditions common to the domestic electric utility industry.

11. Creditworthiness

The Transmission Provider's creditworthiness procedures are specified in Attachment L.

12. Dispute Resolution Procedures

12.1 Dispute Resolution Procedures (RTG Members)

Any dispute between the Transmission Provider and a Transmission Customer who is a member in a common RTG with the Transmission Provider and that involves Transmission Service under this Tariff (excluding Applications for rate changes or other changes to this Tariff, or to any Service Agreement or Umbrella Agreement under this Tariff, which shall be presented directly to the Commission for resolution) shall be resolved pursuant to the provisions of the applicable RTG Governing Agreement.

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12.2 Internal Dispute Resolution Procedures (Non-RTG Members)

Any dispute between the Transmission Provider and a Transmission Customer who is not a member in a common RTG with the Transmission Provider and involving transmission service under the Tariff (excluding applications for rate changes or other changes to the Tariff, or to any Service Agreement or Umbrella Agreement entered into under the Tariff, which shall be presented directly to the Commission for resolution) shall be referred to a designated senior representative of the Transmission Provider and a senior representative of the Transmission Customer for resolution on an informal basis as promptly as practicable. In the event the designated representatives are unable to resolve the dispute within thirty (30) Calendar Days or such other period as the Parties may agree upon by mutual agreement, such dispute may be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below.

12.2.1 Consolidation of Arbitrations related to the Allocation of Transfer Capability

If any dispute related to the calculation, allocation, sale or award of transfer capability, including a portion of transfer capability, on the Transmission System is submitted to arbitration, then all disputes related to the calculation, allocation, sale or award of that same transfer capability, including the same portion of that transfer capability, on the Transmission System, shall be submitted to arbitration and consolidated into a single arbitration. In the case of such a dispute, if the transfer capability at issue has been allocated to a Transmission Customer, that Transmission Customer may become a Party to the arbitration.

12.3 External Arbitration Procedures (Non-RTG Members)

(a) Any arbitration initiated under the Tariff between Transmission Provider and a Transmission Customer who is not a member in a common RTG with the Transmission Provider shall be conducted in British Columbia before a single neutral arbitrator appointed by the Parties.

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- (b) In the case of a non-consolidated arbitration, if the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the referral of the dispute to arbitration, each Party shall choose one arbitrator who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within twenty (20) Calendar Days select a third arbitrator to chair the arbitration panel.
- (c) In the case of a consolidated arbitration, if the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the referral of the dispute to arbitration, the Parties will provide a notice to the British Columbia International Commercial Arbitration Centre in Vancouver, British Columbia (the Centre) to appoint an arbitrator pursuant to the Domestic Commercial Arbitration Rules of Procedure of the Centre as amended from time to time.
- (d) The arbitrator(s) shall be knowledgeable in electric utility matters, including electric transmission and bulk power issues, and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall conduct the arbitration in British Columbia and shall provide each of the Parties an opportunity to be heard and, except as otherwise provided herein, shall generally conduct the arbitration in accordance with the Commercial Arbitration Act of British Columbia.

12.4 Arbitration Decisions

Unless otherwise agreed or, in the case where Transmission Provider and Transmission Customer are members in a common RTG except as otherwise provided in an applicable RTG Governing Agreement, the arbitrator(s) shall render a decision within ninety (90) Calendar Days of appointment and shall notify the Parties in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of the Tariff and any Service Agreement or Umbrella Agreement entered into under the Tariff and shall have no power to modify or change any of the above in any manner. The decision of the arbitrator(s) shall be final and

binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards of the Commercial Arbitration Act of British Columbia. The final decision of the arbitrator must also be filed with the Commission if it affects the Transmission Provider's rates, terms and conditions of service or facilities.

12.5 Costs

Except as may be otherwise provided in an RTG Governing Agreement applicable to the Transmission Provider and a Transmission Customer who is a member in a common RTG with the Transmission Provider, each Party shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable:

- (a) the cost of the arbitrator chosen by the Party to sit on the three member panel and one half of the cost of the third arbitrator chosen;
- (b) one half the cost of the single arbitrator jointly chosen by the Parties; or
- (c) in a consolidated arbitration, an equal share of the cost of the single arbitrator jointly chosen by the Parties or appointed by the Centre.

12.6 Rights Under The British Columbia Utilities Commission Act

Nothing in this section shall restrict the rights of any party to file a Complaint with the Commission under relevant provisions of the British Columbia Utilities Commission Act.

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PART II. POINT-TO-POINT TRANSMISSION SERVICE

Preamble

The Transmission Provider will provide Firm and Non-Firm Point-To-Point Transmission Service pursuant to the applicable terms and conditions of this Tariff. Point-To-Point Transmission Service is for the receipt of capacity and energy at designated Point(s) of Receipt and the transfer of such capacity and energy to designated Point(s) of Delivery. Customers taking Point-To-Point Transmission Service must obtain Ancillary Services pursuant to Section 3.

13. Nature of Firm Point-To-Point Transmission Service

13.1 Term

The minimum term of Firm Point-To-Point Transmission Service shall be one hour and the maximum term shall be specified in the Service Agreement.

13.2 Reservation Priority

Subject to Section 15.8 and Section 15.9, Long-Term Firm Point-To-Point Transmission Service shall be available on a first-come, first-served basis i.e., in the chronological sequence in which each Transmission Customer has reserved service. Reservations for Short-Term Firm Point-To-Point Transmission Service will be conditional based upon the length of the requested transaction. If the Transmission System becomes oversubscribed, requests for longer term service may preempt requests for shorter term service up to the following deadlines: one Calendar Day before the commencement of daily service, one week before the commencement of weekly service, and one calendar month before the commencement of monthly service. Before the conditional reservation deadline, if available transfer capability is insufficient to satisfy all Applications, an Eligible Customer with a reservation for shorter term service has the right of first refusal to match any subsequent longer term reservation before losing its reservation priority. A

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longer term competing request for Short-Term Firm Point-To-Point Transmission Service will be granted if the Eligible Customer with the right of first refusal does not agree to match the competing request within 24 hours (or earlier if necessary to comply with the scheduling deadlines provided in Section 13.8 or as determined by the Transmission Provider) from being notified by the Transmission Provider of a longer-term competing request for Short-Term Firm Point-To-Point Transmission Service. After the conditional reservation deadline, service will commence pursuant to the terms of Part II of the Tariff. Firm Point-To-Point Transmission Service under the Tariff. Reservation priority over Non-Firm Point-To-Point Transmission Service will be determined on the same basis as Network Customers. Reservation priorities for existing firm service customers are provided in Section 2.2.

13.3 Use of Firm Transmission Service by the Transmission Provider

The Transmission Provider will be subject to the rates, terms and conditions of Part II of the Tariff when making Third-Party Sales. The Transmission Provider will maintain separate accounting, pursuant to Section 8, for any use of the Point-To-Point Transmission Service to make Third-Party Sales.

13.4 Service Agreements

Subject to Attachment M-2, the Transmission Provider shall offer a standard form Long-Term Firm Point-To-Point Transmission Service Agreement (Attachment B) to an Eligible Customer when it submits a Completed Application for Long-Term Firm Point-To-Point Transmission Service. Subject to Attachment M-2, the Transmission Provider shall offer a standard form Umbrella Agreement (Attachment A) to an Eligible Customer when it first submits a Completed Application for Short-Term Firm Point-To-Point Transmission Service pursuant to the Tariff. Executed Service Agreements and Umbrella Agreements that contain the information required under the Tariff shall be filed with the Commission.

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13.5 Transmission Customer Obligations for Facility Additions or Redispatch Costs

In cases where the Transmission Provider determines that the Transmission System is not capable of providing Long-Term Firm Point-To-Point Transmission Service without: (i) degrading or impairing the reliability of service to Network Customers and other Transmission Customers taking Long-Term Firm Point-To-Point Transmission Service; or (ii) interfering with the Transmission Provider's ability to meet prior firm contractual commitments to others, the Transmission Provider will be obligated to expand or upgrade its Transmission System pursuant to the terms of Section 15.4. The Transmission Customer must agree to compensate the Transmission Provider for any necessary transmission facility additions pursuant to the terms of Section 27. To the extent the Transmission Provider can relieve any system constraint by redispatching the Transmission Provider's resources, it shall do so, provided that the Eligible Customer agrees to compensate the Transmission Provider pursuant to the terms of Section 27 and agrees to either (i) compensate the Transmission Provider for any necessary transmission facility additions or (ii) accept the service subject to a biennial reassessment by the Transmission Provider of redispatch requirements as described in Section 15.4. Any redispatch, Network Upgrade or Direct Assignment Facilities costs to be charged to the Transmission Customer on an incremental basis under the Tariff will be specified in the Service Agreement prior to initiating service.

13.6 Curtailment of Firm Transmission Service

In the event that a Curtailment on the Transmission Provider's Transmission System, or a portion thereof, is required to maintain reliable operation of such system, Curtailments will be made on a non-discriminatory basis to the transaction(s) that effectively relieve the constraint. If multiple transactions require Curtailment, to the extent practicable and consistent with Good Utility Practice, the Transmission Provider will curtail service to Network Customers and Transmission Customers taking Firm Point-To-Point Transmission Service on an equal basis. All Curtailments will be made on a nondiscriminatory basis, however, Non-Firm Point-To-Point Transmission Service shall be

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subordinate to Firm Transmission Service. When the Transmission Provider determines that an electrical emergency exists on its Transmission System and implements emergency procedures to Curtail Firm Transmission Service, the Transmission Customer shall make the required reductions upon request of the Transmission Provider. However, the Transmission Provider reserves the right to Curtail, in whole or in part, any Firm Transmission Service provided under the Tariff when, in the Transmission Provider's sole discretion, an emergency or other unforeseen condition impairs or degrades the reliability of its Transmission System. The Transmission Provider will notify all affected Transmission Customers in a timely manner of any scheduled Curtailments.

13.7 Classification of Firm Transmission Service

- (a) Transmission Customer taking Firm Point-To-Point Transmission Service may: (i) change its Point(s) of Receipt and Point(s) of Delivery to obtain service on a non-firm basis consistent with the terms of Section 22.1; or (ii) request a modification of the Points of Receipt or Delivery on a firm basis pursuant to the terms of Section 22.2.
- (b) The Transmission Customer may purchase transmission service to make sales of capacity and energy from multiple generating units that are on the Transmission Provider's Transmission System. For such a purchase of transmission service, the resources will be designated as multiple Points of Receipt, unless the multiple generating units are at the same generating plant in which case the units would be treated as a single Point of Receipt.
- (c) The Transmission Provider shall provide firm deliveries of capacity and energy from the Point(s) of Receipt to the Point(s) of Delivery. Each Point of Receipt at which firm transmission capacity is reserved by the Transmission Customer shall be set forth in the Firm Point-To-Point Service Agreement for Long-Term Firm Transmission Service along with a corresponding capacity reservation associated with each Point of Receipt. Points of Receipt and corresponding capacity

reservations shall be as mutually agreed upon by the Parties for Short-Term Firm Transmission. Each Point of Delivery at which firm transfer capability is reserved by the Transmission Customer shall be set forth in the Long-Term Firm Point-To-Point Service Agreement for Long-Term Firm Transmission Service along with a corresponding capacity reservation associated with each Point of Delivery. Points of Delivery and corresponding capacity reservations shall be as mutually agreed upon by the Parties for Short-Term Firm Transmission. The greater of either: (i) the sum of the capacity reservations at the Point(s) of Receipt; or (ii) the sum of the capacity reservations at the Point(s) of Delivery shall be the Transmission Customer's Reserved Capacity. The Transmission Customer will be billed for its Reserved Capacity, in accordance with the terms of Rate Schedule 01. The Transmission Customer may not exceed its firm capacity reserved at each Point of Receipt and each Point of Delivery except as otherwise specified in Section 22. In the event that a Transmission Customer (including Third-Party Sales by the Transmission Provider) exceeds its firm reserved capacity at any Point of Receipt or Point of Delivery, the Transmission Customer shall pay to the Transmission Provider the applicable charges payable under Rate Schedule 01, for the amount of capacity that exceeded the firm reserved capacity or uses Transmission Service at a Point of Receipt or Point of Delivery that it has not reserved.

13.8 Scheduling of Firm Point-To-Point Transmission Service

Schedules for the Transmission Customer's Firm Point-To-Point Transmission Service must be submitted to the Transmission Provider no later than 10:00 a.m. or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider of the day prior to commencement of such service. Schedules submitted after 10:00 a.m. will be accommodated, if practicable. Hour-to-hour schedules of any capacity and energy that is to be delivered must be stated in increments of 1,000 kW per hour or a reasonable increment that is generally accepted in the region and is consistently adhered to by the Transmission Provider. Transmission Customers within the Transmission Provider's service area with multiple requests for Transmission

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Service at a Point of Receipt, each of which is under 1,000 kW per hour, may consolidate their service requests at a common point of receipt into units of 1,000 kW per hour for scheduling and billing purposes. Scheduling changes will be permitted up to twenty (20) minutes or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider before the start of the next clock hour provided that the Delivering Party and Receiving Party also agree to the schedule modification. The Transmission Provider will furnish to the Delivering Party's system operator, hour-to-hour schedules equal to those furnished by the Receiving Party (unless reduced for losses) and shall deliver the capacity and energy provided by such schedules. Should the Transmission Customer, Delivering Party or Receiving Party revise or terminate any schedule, such party shall immediately notify the Transmission Provider shall have the right to adjust accordingly the schedule for capacity and energy to be received and to be delivered.

14. Nature of Non-Firm Point-To-Point Transmission Service

14.1 Term

Non-Firm Point-To-Point Transmission Service will be available for periods ranging from one (1) hour to less than one (1) year. A Purchaser of Non-Firm Point-To-Point Transmission Service will be entitled to reserve a sequential term of service (such as a sequential monthly term without having to wait for the initial term to expire before requesting another monthly term) so that the total time period for which the reservation applies is less than one (1) year subject to the requirements of Section 18.3.

14.2 Reservation Priority

Non-Firm Point-To-Point Transmission Service shall be available from transfer capability in excess of that needed for reliable service to Network Customers and other Transmission Customers taking Long-Term and Short-Term Firm Point-To-Point Transmission Service. A higher priority will be assigned to reservations with a longer duration of service. In the event the Transmission System is constrained, competing

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requests of equal duration will be prioritized based on the highest price offered by the Eligible Customer for the Transmission Service. Eligible Customers that have already reserved shorter term service have the right of first refusal to match any longer term reservation before being preempted. A longer term competing request for Non-Firm Point-To-Point Transmission Service will be granted if the Eligible Customer with the right of first refusal does not agree to match the competing request: (i) immediately for hourly Non-Firm Point-To-Point Transmission Service after notification by the Transmission Provider; and (ii) within 24 hours (or earlier if necessary to comply with the scheduling deadlines provided in Section 14.6) for Non-Firm Point-To-Point Transmission Service other than hourly transactions after notification by the Transmission Provider. Transmission service for Network Customers from resources other than designated Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service. Non-Firm Point-To-Point Transmission Service over secondary Point(s) of Receipt and Point(s) of Delivery will have the lowest reservation priority under the Tariff.

14.3 Use of Non-Firm Point-To-Point Transmission Service by the Transmission Provider

The Transmission Provider will be subject to the rates, terms and conditions of Part II of the Tariff when making Third-Party Sales. The Transmission Provider will maintain separate accounting, pursuant to Section 8, for any use of Non-Firm Point-To-Point Transmission Service to make Third-Party Sales.

14.4 Umbrella Agreements

The Transmission Provider shall offer a standard form Umbrella Agreement (Attachment A) to an Eligible Customer when it first submits a Completed Application for Non-Firm Point-To-Point Transmission Service pursuant to the Tariff.

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14.5 Classification of Non-Firm Point-To-Point Transmission Service

Non-Firm Point-To-Point Transmission Service shall be offered under terms and conditions contained in Part II of the Tariff. The Transmission Provider undertakes no obligation under the Tariff to plan its Transmission System in order to have sufficient capacity for Non-Firm Point-To-Point Transmission Service. Parties requesting Non-Firm Point-To-Point Transmission Service for the transmission of firm power do so with the full realization that such service is subject to availability and to Curtailment or Interruption under the terms of the Tariff. In the event that a Transmission Customer (including Third-Party Sales by the Transmission Provider) exceeds its non-firm capacity reservation, the Transmission Customer shall pay to the Transmission Provider the applicable charges payable under Rate Schedule 01 for the amount of capacity that exceeded the non-firm Reserved Capacity. Non-Firm Point-To-Point Transmission of scheduled short-term capacity and energy on a daily, weekly or monthly basis, to a maximum term if less than one year for any one Application, in accordance with the terms of Rate Schedule 01.

14.6 Scheduling of Non-Firm Point-To-Point Transmission Service

Schedules for Non-Firm Point-To-Point Transmission Service must be submitted to the Transmission Provider no later than 2:00 p.m. or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider of the day prior to commencement of such service. Schedules submitted after 2:00 p.m. will be accommodated, if practicable. Hour-to-hour schedules of energy that is to be delivered must be stated in increments of 1,000 kW per hour or a reasonable increment that is generally accepted in the region and is consistently adhered to by the Transmission Provider's service area with multiple requests for Transmission Service at a Point of Receipt, each of which is under 1,000 kW per hour, may consolidate their schedules at a common Point of Receipt into units of 1,000 kW per hour. Scheduling changes will be permitted

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up to twenty (20) minutes or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider before the start of the next clock hour provided that the Delivering Party and Receiving Party also agree to the schedule modification. The Transmission Provider will furnish to the Delivering Party's system operator, hour-to-hour schedules equal to those furnished by the Receiving Party (unless reduced for losses) and shall deliver the capacity and energy provided by such schedules. Should the Transmission Customer, Delivering Party or Receiving Party revise or terminate any schedule, such party shall immediately notify the Transmission Provider, and the Transmission Provider shall have the right to adjust accordingly the schedule for capacity and energy to be received and to be delivered.

14.7 Curtailment or Interruption of Service

The Transmission Provider reserves the right to Curtail, in whole or in part, Non-Firm Point-To-Point Transmission Service provided under the Tariff for reliability reasons when an emergency or other unforeseen condition threatens to impair or degrade the reliability of its Transmission System. The Transmission Provider reserves the right to Interrupt, in whole or in part, Non-Firm Point-To-Point Transmission Service provided under the Tariff for economic reasons in order to accommodate: (i) a request for Firm Transmission Service; (ii) a request for Non-Firm Point-To-Point Transmission Service of greater duration; (iii) a request for Non-Firm Point-To-Point Transmission Service of equal duration with a higher price; or (iv) transmission service for Network Customers from non-designated resources The Transmission Provider also will discontinue or reduce service to the Transmission Customer to the extent that deliveries for transmission are discontinued or reduced at the Point(s) of Receipt. Where required, Curtailments or Interruptions will be made on a non-discriminatory basis to the transaction(s) that effectively relieve the constraint, however, Non-Firm Point-To-Point Transmission Service shall be subordinate to Firm Transmission Service. If multiple transactions require Curtailment or Interruption, to the extent practicable and consistent with Good Utility Practice, Curtailments or Interruptions will be made to transactions of the shortest term (e.g. hourly non-firm transactions will be Curtailed or Interrupted before

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daily non-firm transactions and daily non-firm transactions will be Curtailed or Interrupted before weekly non-firm transactions). Transmission service for Network Customers from resources other than designated Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service under the Tariff. Non-Firm Point-To-Point Transmission Service over secondary Point(s) of Receipt and Point(s) of Delivery will have a lower priority than any Non-Firm Point-To-Point Transmission Service under the Tariff. The Transmission Provider will provide advance notice of Curtailment or Interruption where such notice can be provided consistent with Good Utility Practice.

15. Service Availability

15.1 General Conditions

The Transmission Provider will provide Firm and Non-Firm Point-To-Point Transmission Service over, on or across its Transmission System to any Transmission Customer that has met the requirements of Section 16.

15.2 Determination of Available Transfer Capability

A description of the Transmission Provider's specific methodology for assessing available transfer capability posted on the Transmission Provider's OASIS (Section 4) is contained in Attachment C of the Tariff. In the event sufficient transfer capability may not exist to accommodate a request for Long-Term Firm Service, the Transmission Provider will respond by performing a System Impact Study

15.3 Initiating Service in the Absence of an Executed Service Agreement or Umbrella Agreement

If the Transmission Provider and the Transmission Customer requesting Firm or Non-Firm Point-To-Point Transmission Service cannot agree on all the terms and conditions of the Point-To-Point Service Agreement or Umbrella Agreement, the Transmission Provider shall file with the Commission, within thirty (30) Calendar Days after the date

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the Transmission Customer provides written notification directing the Transmission Provider to file, an unexecuted Point-To-Point Service Agreement or Umbrella Agreement containing terms and conditions deemed appropriate by the Transmission Provider for such requested Transmission Service. The Transmission Provider shall commence providing Transmission Service subject to the Transmission Customer agreeing to: (i) compensate the Transmission Provider at whatever rate the Commission ultimately determines to be just and reasonable; and (ii) comply with the terms and conditions of the Tariff including posting appropriate security deposits in accordance with the terms of Section 17.3.

15.4 Obligation to Provide Transmission Service that Requires Expansion or Modification of the Transmission System, Redispatch or Conditional Curtailment

- (a) If the Transmission Provider determines that it cannot accommodate a Completed Application for Long-Term Firm Point-To-Point Transmission Service because of insufficient capability on its Transmission System, the Transmission Provider will use due diligence to expand or modify its Transmission System to provide the requested Long-Term Firm Transmission Service, consistent with its planning obligations in Attachment K, provided the Transmission Customer agrees to compensate the Transmission Provider for such costs pursuant to the terms of Section 27. The Transmission Provider will conform to Good Utility Practice and its planning obligations in Attachment K, in determining the need for new facilities and in the design and construction of such facilities. The obligation applies only to those facilities that the Transmission Provider has the right to expand or modify. The Transmission Provider is not obligated under this Tariff to expand or modify its Transmission System to provide Short-Term Firm Point-To-Point Service.
- (b) If the Transmission Provider determines that it cannot accommodate a Completed Application for Long-Term Firm Point-To-Point Transmission Service because of insufficient capability on its Transmission System, the Transmission Provider will

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use due diligence to provide redispatch from its own resources until (i) Network Upgrades are completed for the Transmission Customer, (ii) the Transmission Provider determines through a biennial reassessment that it can no longer reliably provide the redispatch, or (iii) the Transmission Customer terminates the service because of redispatch changes resulting from the reassessment. The Transmission Provider shall not unreasonably deny self-provided redispatch or redispatch arranged by the Transmission Customer from a third party resource.

(c) Reserved.

15.5 Deferral of Service

The Transmission Provider may defer providing service until it completes construction of new transmission facilities or upgrades needed to provide Long-Term Firm Point-To-Point Transmission Service whenever the Transmission Provider determines that providing the requested service would, without such new facilities or upgrades, impair or degrade reliability to any existing firm services.

15.6 Other Transmission Service Schedules

Eligible Customers receiving transmission service under other agreements on file with the Commission may continue to receive transmission service under those agreements until such time as those agreements may be modified by the Commission.

15.7 Real Power Losses

Real Power Losses are associated with all transmission service. The Transmission Provider is not obligated to provide Real Power Losses. The Transmission Customer is responsible for replacing losses associated with all transmission service as calculated by the Transmission Provider. The applicable Real Power Loss factors are set out in Rate Schedule 10. The Transmission Customer may elect to self-supply losses on its transmission services or to purchase Loss Compensation Service from the Transmission

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Provider pursuant to its Rate Schedule 09. A Transmission Customer who has elected to purchase Loss Compensation Service from the Transmission Provider will not be able to change its election.

A Transmission Customer who has elected to self-supply transmission losses, must submit a valid loss schedule with each energy schedule associated with its transmission service in accordance with the Transmission Provider's scheduling practices. If the Transmission Customer fails to submit a valid loss schedule with its energy schedule associated with its transmission reservation in accordance with the Transmission Provider's scheduling practices and

- (i) if the Transmission Customer has failed to submit a valid loss schedule with its energy schedule fewer than three times, the Transmission Provider will charge the Transmission Customer for Loss Compensation Service pursuant to its Rate Schedule 09, and inform the Transmission Customer the number of times the Transmission Customer has failed to submit valid loss schedule with its energy schedule; or
- (ii) if the Transmission Customer has been notified by the Transmission Provider that the Transmission Customer has failed to submit a valid loss schedule with its energy schedule three times, the Transmission Provider will (a) charge the Transmission Customer for Loss Compensation Service pursuant to its Rate Schedule 09, (b) the Transmission Customer will not be permitted to self supply losses; and (c) the Transmission Provider will notify the Transmission Customer of the commencement date for Loss Compensation Service.

15.8 Open Season

At the Transmission Provider's option, requests for Long-Term Firm Point-To-Point Service may be aggregated, studied, and accommodated together. If the Transmission Provider elects to study requests for long-term service together, all Completed Applications received within a period not to exceed one hundred and eighty (180)

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Calendar Days (the Open Season Period) will be studied together provided that the Transmission Provider may study a Completed Application separately to the extent warranted by Good Utility Practice based upon the electrical remoteness of the service required and the resulting impacts on the system. Notwithstanding the provisions of Section 13.2, but subject to the provisions of (c) below, all Eligible Customers who submit Completed Applications within the Open Season Period shall have equal reservation priority, behind Completed Applications submitted prior to the Open Season Period and ahead of Completed Applications submitted after the Open Season Period.

The Open Season Period shall have a fixed time interval based on fixed annual opening and closing dates. Any changes to the established Open Season Period shall be announced with a posting on the Transmission Provider's OASIS beginning at least one hundred and eighty (180) Calendar Days in advance of the change and continuing thereafter through the end date of the first Open Season Period that is to be modified.

The provisions of Section 19 apply to Completed Applications received within the Open Season Period except as set out in (a), (b) and (c) below.

- (a) The costs of the System Impact Study shall be allocated pro rata based on the capacity requested among the Eligible Customers who have submitted Completed Applications within the Open Season Period and the costs of the Facilities Study shall be allocated, pro rata, based on the capacity requested, among those Eligible Customers who subsequently execute a Facilities Study Agreement tendered by the Transmission Provider in accordance with Section 19.4.
- (b) Within fifteen (15) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study or, where an Eligible Customer described in Section 15.9 makes an election pursuant to Section 15.9(c), on the first business day after the Transmission Provider has notified each Eligible Customer that has executed a Facilities Study Agreement of the election made, each Eligible Customer that has executed a Facilities Study Agreement shall indicate on OASIS whether it is willing to

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pay its applicable share of the good faith estimate of costs allocated in accordance with Attachment O, contained in the Facilities Study. Within thirty (30) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study, the Transmission Provider shall tender a Service Agreement to each Eligible Customer that has indicated that it is willing to pay its applicable share of those costs. Each Service Agreement shall be contingent on execution by each other Eligible Customer receiving a Service Agreement. Each Eligible Customer shall have fifteen (15) Calendar Days to execute its Service Agreement and provide the required letter of credit or other form of security. If any one or more Service Agreements are not executed or security not provided by the expiry of that fifteen-day period, the Transmission Provider shall, within fifteen (15) Calendar Days thereafter, reissue Service Agreements to those Eligible Customers that executed the previous Service Agreement apportioning the costs contained in the Facilities Study among those remaining Eligible Customers. Each of those remaining Eligible Customers shall have fifteen (15) Calendar Days to execute its Service Agreement and provide the required letter of credit or other form of security. If any one or more of those Service Agreements are not executed or security not provided, then the Transmission Provider shall continue to reissue Service Agreements as provided for above until all issued Service Agreements are executed and security provided, or until the last Service Agreement tendered was tendered to a single Eligible Customer.

- (c) Subject to 15.9(a) and Attachment M-2, any available transmission capability that can be provided to accommodate a request for service, in whole or in part, without modification or expansion of the Transmission Provider's Transmission System, shall be allocated to Eligible Customers on a first-come, first-serve basis, i.e., in the chronological sequence in which each has reserved service.
- 15.9 An Eligible Customer that has submitted a Completed Application before the Open Season Period described in Section 15.8 may elect, prior to execution of a Service Agreement or the filing of an unexecuted Service Agreement with respect to the requested Transmission Service, to participate in the Open Season process described in

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Section 15.8. If such an Eligible Customer elects to participate in the Open Season process, the provisions of Section 15.8 apply to that Eligible Customer as though it had submitted a Completed Application within the Open Season period, except as set out in (a), (b), (c) and (d) below:

- (a) Subject to Attachment M-2, the Eligible Customer shall have priority to any available transmission capability to accommodate its request without modification or expansion of the Transmission Provider's Transmission System on a first-come, first-serve basis, i.e., in the chronological sequence in which it requested service before the open season period.
- (b) The Facilities Study shall include a good faith estimate of costs allocated to the Eligible Customer in accordance with Attachment O on the basis that (i) the Eligible Customer's request was studied separately in accordance with its reservation priority and (ii) the Eligible Customer's request was studied as part of the Open Season process.
- (c) Within fifteen (15) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study, the Eligible Customer shall indicate on OASIS whether it is willing to pay its applicable share of the good faith estimate of costs determined on the basis described in either (b)(i) or (b)(ii) above.
- (d) If the Eligible Customer indicates that it is willing to pay its applicable share of costs, as described in (c) above, the Transmission Provider shall, within thirty (30) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study, tender a Service Agreement to the Eligible Customer in accordance with the Eligible Customer's election in (c) above.

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16. Transmission Customer Responsibilities

16.1 Conditions Required of Transmission Customers

Point-To-Point Transmission Service shall be provided by the Transmission Provider only if the following conditions are satisfied by the Transmission Customer:

- (a) The Transmission Customer has submitted a Completed Application for service;
- (b) The Transmission Customer meets the creditworthiness criteria set forth in Appendix L;
- (c) The Transmission Customer will have arrangements in place for any other transmission service necessary to effect the delivery from the generating source to the Transmission Provider prior to the time service under Part II of the Tariff commences;
- (d) The Transmission Customer agrees to pay for any facilities constructed and chargeable to such Transmission Customer under Part II of the Tariff and provide security for any Network Upgrades in accordance with Attachment O, whether or not the Transmission Customer takes service for the full term of its reservation;
- (e) The Transmission Customer provides the information required by the Transmission Provider's planning process established in Attachment K; and,
- (f) The Transmission Customer has executed a Point-To-Point Service Agreement or Umbrella Agreement or has agreed to receive service pursuant to Section 15.3.

16.2 Transmission Customer Responsibility for Third-Party Arrangements

Any scheduling arrangements that may be required by other electric systems shall be the responsibility of the Transmission Customer requesting service. The Transmission Customer shall provide, unless waived by the Transmission Provider, notification to the

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Transmission Provider identifying such systems and authorizing them to schedule the capacity and energy to be transmitted by the Transmission Provider pursuant to Part II of the Tariff on behalf of the Receiving Party at the Point of Delivery or the Delivering Party at the Point of Receipt. However, the Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making such arrangements, including without limitation, providing any information or data required by such other electric system pursuant to Good Utility Practice.

17. Procedures for Arranging Firm Point-To-Point Transmission Service

17.1 Application

A request for Firm Point-To-Point Transmission Service for periods of one year or longer must contain an Application to BC Hydro at least sixty (60) Calendar Days in advance of the calendar month in which service is to commence. The Transmission Provider will consider requests for such firm service on shorter notice when feasible. Requests for firm service for periods of less than one year shall be made pursuant to an executed Umbrella Agreement. Request for Short-Term Firm Point-To-Point transmission service of less than one year shall be submitted no earlier than the number of Calendar Days specified by the Transmission Provider in its Business Practices before service is to commence. All Firm Point-To-Point Transmission Service requests must be submitted by entering the information listed below on the Transmission Provider's OASIS. If the Transmission Provider's OASIS is not functioning, a Completed Application may be submitted by: (i) transmitting the required information to the Transmission Provider by telefax; or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the priority of the Application.

17.2 Completed Application

A Completed Application shall provide all of the information listed below together with such other information as may be required by the Commission:

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- (a) The identity, address, telephone number, email address and facsimile number of the entity requesting service;
- (b) A statement that the entity requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (c) The location of the Point(s) of Receipt and Point(s) of Delivery and the identities of the Delivering Parties and the Receiving Parties;
- (d) The location of the generating facility(ies) supplying the capacity and energy and the location of the load ultimately served by the capacity and energy transmitted. The Transmission Provider will treat this information as confidential except to the extent that disclosure of this information is required by this Tariff, by regulatory or judicial order, for reliability purposes pursuant to Good Utility Practice or pursuant to RTG transmission information sharing agreements. The Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission;
- (e) A description of the supply characteristics of the capacity and energy to be delivered;
- (f) An estimate of the capacity and energy expected to be delivered to the Receiving Party;
- (g) The Service Commencement Date and the term of the requested Transmission Service;
- (h) The transmission capacity requested for each Point of Receipt and each Point of Delivery on the Transmission Provider's Transmission System; customers may combine their requests for service in order to satisfy the minimum transmission capacity requirement;

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- A statement indicating that, if the Eligible Customer submits a Pre-Confirmed Application, the Eligible Customer will execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service; and,
- (j) Any additional information required by the Transmission Provider's planning process established in Attachment K.

The Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission.

17.3 Deposit

A Completed Application for Firm Point-To-Point Transmission Service also shall include a deposit of either one month's charge for Reserved Capacity or the full charge for Reserved Capacity for service requests of less than one month. If the Application is rejected by the Transmission Provider because it does not meet the conditions for service as set forth herein, or in the case of requests for service arising in connection with losing bidders in a Request For Proposals (RFP), said deposit less any reasonable costs incurred by the Transmission Provider in connection with the review of the losing bidder's Application shall be refunded with interest on the refundable amount. The deposit less any reasonable costs incurred by the Transmission Provider will also be refunded with interest on the refundable amount if the Transmission Provider is unable to complete new facilities needed to provide the service. If an Application is withdrawn or the Eligible Customer decides not to enter into a Service Agreement for Firm Point-To-Point Transmission Service, the deposit less reasonable costs incurred by the Transmission Provider to the extent such costs have not already been recovered by the Transmission Provider from the Eligible Customer shall be refunded with interest on the refundable amount. The Transmission Provider will provide to the Eligible Customer a complete accounting of all costs deducted from the refunded deposit, which the Eligible Customer may contest if there is a dispute concerning the deducted costs. If a Service

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Agreement for Firm Point-To-Point Transmission Service is executed, the deposit, with interest, will be returned to the Transmission Customer upon expiration or termination of the Service Agreement for Firm Point-To-Point Transmission Service. Applicable interest shall be computed at the average prime rate of Transmission Provider's lead bank for the applicable period, and shall be calculated from the day the deposit check is credited to the Transmission Provider's account based on the refundable amount. Deposits associated with construction of new facilities are subject to the provisions of Section 19.

17.4 Notice of Deficient Application

Subject to Attachment M-2, if an Application fails to meet the requirements of the Tariff, the Transmission Provider shall notify the entity requesting service within fifteen (15) Calendar Days of receipt of the reasons for such failure. The Transmission Provider will attempt to remedy minor deficiencies in the Application through informal communications with the Eligible Customer. If such efforts are unsuccessful fifteen (15) Calendar Days after notifying the entity requesting service of the deficiencies, the Transmission Provider shall return the Application, along with any deposit, with interest. Upon receipt of a new or revised Application that fully complies with the requirements of Part II of the Tariff, the Eligible Customer shall be assigned a new priority consistent with the date of the new or revised Application.

17.5 Response to a Completed Application

Following receipt of a Completed Application for Firm Point-To-Point Transmission Service, the Transmission Provider shall make a determination of available transfer capability as required in Section 15.2. Subject to Attachment M-2, the Transmission Provider shall notify the Eligible Customer as soon as practicable, but not later than thirty (30) Calendar Days after the date of receipt of a Completed Application either: (i) if it will be able to provide service without performing a System Impact Study; or (ii) if such a study is needed to evaluate the impact of the Application pursuant to Section 19.1. Subject to Attachment M-2, responses by the Transmission Provider must be made as

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soon as practicable to all completed applications (including applications by its own merchant function) and the timing of such responses must be made on a nondiscriminatory basis.

17.6 Execution of Service Agreement

Subject to Attachment M-2, whenever the Transmission Provider determines that a System Impact Study is not required and that the service can be provided, it shall notify the Eligible Customer as soon as practicable but no later than thirty (30) Calendar Days after receipt of the Completed Application. Failure of an Eligible Customer to execute and return the Service Agreement or request the filing of an unexecuted service agreement pursuant to Section 15.3, within fifteen (15) Calendar Days after it is tendered by the Transmission Provider will be deemed a withdrawal and termination of the Application and any deposit submitted shall be refunded with interest. Nothing herein limits the right of an Eligible Customer to file another Application after such withdrawal and termination. Where a System Impact Study is required, the provisions of Section 19 will govern the execution of a Service Agreement.

17.7 Extensions for Commencement of Service

The Transmission Customer can obtain, subject to availability, up to five (5) one-year extensions for the commencement of service. The Transmission Customer may postpone service by paying a non-refundable annual reservation fee equal to one-month's charge for Firm Transmission Service for each year or fraction thereof within 15 days of notifying the Transmission Provider it intends to extend the commencement of service. If during any extension for the commencement of service an Eligible Customer submits a Completed Application for Firm Transmission Service, and such request can be satisfied only by releasing all or part of the Transmission Customer's Reserved Capacity, the original Reserved Capacity will be released unless the following condition is satisfied. Within thirty (30) Calendar Days, the original Transmission Customer agrees to pay the Firm Point-To-Point transmission rate for its Reserved Capacity concurrent

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with the new Service Commencement Date. In the event the Transmission Customer elects to release the Reserved Capacity, the reservation fees or portions thereof previously paid will be forfeited.

18. Procedures for Arranging Non-Firm Point-To-Point Transmission Service

18.1 Application

Eligible Customers seeking Non-Firm Point-To-Point Transmission Service must submit a Completed Application to the Transmission Provider. Applications must be submitted by entering the information listed below on the Transmission Provider's OASIS. If the Transmission Provider's OASIS is not functioning, a Completed Application may be submitted by: (i) transmitting the required information to the Transmission Provider by telefax; or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the service priority of the Application.

18.2 Completed Application

A Completed Application shall provide all of the information listed below, together with such other information as may be required by the Commission:

- (a) The identity, address, telephone number and facsimile number of the entity requesting service;
- (b) A statement that the entity requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (c) The Point(s) of Receipt and the Point(s) of Delivery;
- (d) The maximum amount of capacity requested at each Point of Receipt and Point of Delivery; and

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(e) The proposed dates and hours for initiating and terminating transmission service hereunder.

In addition to the information specified above, when required to properly evaluate system conditions, the Transmission Provider also may ask the Transmission Customer to provide the following:

- (f) The electrical location of the initial source of the power to be transmitted pursuant to the Transmission Customer's request for service; and
- (g) The electrical location of the ultimate load.

The Transmission Provider will treat this information in (f) and (g) as confidential at the request of the Transmission Customer except to the extent that disclosure of this information is required by this Tariff, by regulatory or judicial order, for reliability purposes pursuant to Good Utility Practice, or pursuant to RTG transmission information sharing agreements. The Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission.

(h) A statement indicating that, if the Eligible Customer submits a Pre-Confirmed Application, the Eligible Customer will execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service.

18.3 Reservation of Non-Firm Point-To-Point Transmission Service

Requests for monthly service shall be submitted no earlier than sixty (60) Calendar Days before service is to commence; requests for weekly service shall be submitted no earlier than fourteen (14) Calendar Days before service is to commence, requests for daily service shall be submitted no earlier than two (2) Working Days before service is to commence, and requests for hourly service shall be submitted no earlier than noon the Working Day before service is to commence. Requests for service received later than

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2:00 p.m. on the Working Day before service is scheduled to commence will be accommodated if practicable, or such reasonable times that are generally accepted in the region and are consistently adhered to by the Transmission Provider.

18.4 Determination of Available Transfer Capability

Following receipt of a tendered schedule the Transmission Provider will make a determination on a non-discriminatory basis of available transfer capability pursuant to Section 15.2. Such determination shall be made as soon as reasonably practicable after receipt, but not later than the following time periods for the following terms of service: (i) thirty (30) minutes for hourly service; (ii) thirty (30) minutes for daily service; (iii) four (4) hours for weekly service; and (iv) two (2) Calendar Days for monthly service, or such reasonable times that are generally accepted in the region and are consistently adhered to by the Transmission Provider.

19. Additional Study Procedures For Long-Term Firm Point-To-Point Transmission Service Requests

19.1 Notice of Need for System Impact Study

After receiving a request for service, the Transmission Provider shall determine on a non-discriminatory basis whether a System Impact Study is needed. A description of the Transmission Provider's methodology for completing a System Impact Study is provided in Attachment D. Subject to Attachment M-2, if the Transmission Provider determines that a System Impact Study is necessary to accommodate the requested service, it shall so inform the Eligible Customer, as soon as practicable. Subject to Attachment M-2 the Transmission Provider shall within thirty (30) Calendar Days of receipt of a Completed Application, tender a System Impact Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required System Impact Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the System Impact Study Agreement and return it to the Transmission Provider with a refundable deposit of \$50,000 in accordance with

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Attachment L, within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the System Impact Study Agreement or not to provide the required deposit in accordance with Attachment L, its application shall be deemed withdrawn and its deposit, pursuant to Section 17.3, shall be returned.

19.2 System Impact Study Agreement and Cost Reimbursement

- (a) The System Impact Study Agreement will clearly specify the Transmission Provider's estimate of the actual cost, and time for completion of the System Impact Study. The charge shall not exceed the actual cost of the study. In performing the System Impact Study, the Transmission Provider shall rely, to the extent reasonably practicable, on existing transmission planning studies. The Eligible Customer will not be assessed a charge for such existing studies; however, the Eligible Customer will be responsible for charges associated with any modifications to existing planning studies that are reasonably necessary to evaluate the impact of the Eligible Customer's request for service on the Transmission System.
- (b) If in response to multiple Eligible Customers requesting service in relation to the same competitive solicitation, a single System Impact Study is sufficient for the Transmission Provider to accommodate the requests for service, the costs of that study shall be pro-rated among the Eligible Customers.
- (c) For System Impact Studies that the Transmission Provider conducts on its own behalf, the Transmission Provider shall record the cost of the System Impact Studies pursuant to Section 8.

19.3 System Impact Study Procedures

Upon receipt of an executed System Impact Study Agreement, the Transmission Provider will use due diligence to complete the required System Impact Study within a sixty (60) Calendar Day period. The System Impact Study shall identify (1) any system

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constraints, (2) redispatch options (when requested by an Eligible Customer) including an estimate of the cost of redispatch, and (3) additional Direct Assignment Facilities or Network Upgrades required to provide the requested service. For customers requesting the study of redispatch options, the System Impact Study shall (1) identify all resources located within the Transmission Provider's Control Area that can significantly contribute toward relieving the system constraint and (2) provide a measurement of each resource's impact on the system constraint. If the Transmission Provider possesses information indicating that any resource outside its Control Area could relieve the constraint, it shall identify each such resource in the System Impact Study. In the event that the Transmission Provider is unable to complete the required System Impact Study within such time period, it shall so notify the Eligible Customer and provide an estimated completion date along with an explanation of the reasons why additional time is required to complete the required studies. A copy of the completed System Impact Study and related work papers shall be made available to the Eligible Customer. The Transmission Provider shall notify the Eligible Customer immediately upon completion of the System Impact Study if the Transmission System will be adequate to accommodate all or part of a request for service or that no costs are likely to be incurred for new transmission facilities or upgrades. In order for a request to remain a Completed Application, within fifteen (15) Calendar Days of completion of the System Impact Study the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement pursuant to Section 15.3, or the Application shall be deemed terminated and withdrawn.

19.4 Facilities Study Procedures

If a System Impact Study indicates that additions or upgrades to the Transmission System are needed to supply the Eligible Customer's service request, the Transmission Provider, within thirty (30) Calendar Days of the completion of the System Impact Study, shall tender to the Eligible Customer a Facilities Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the

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required Facilities Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the Facilities Study Agreement and return it with a refundable deposit of \$100,000 in accordance with Attachment L to the Transmission Provider within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the Facilities Study Agreement or not to provide a deposit in accordance with Attachment L, its application shall be deemed withdrawn and its deposit, pursuant to Section 17.3, shall be returned. Upon receipt of an executed Facilities Study Agreement, the Transmission Provider will use due diligence to complete the required Facilities Study within a sixty (60) Calendar Day period. If the Transmission Provider is unable to complete the Facilities Study in the allotted time period, the Transmission Provider shall notify the Transmission Customer and provide an estimate of the time needed to reach a final determination along with an explanation of the reasons that additional time is required to complete the study. When completed, the Facilities Study will include a good faith estimate of: (i) the cost of Direct Assignment Facilities to be charged to the Transmission Customer; (ii) the Transmission Customer's appropriate share of the cost of any required Network Upgrades as determined pursuant to the provisions of Part II of the Tariff; and (iii) the time required to complete such construction and initiate the requested service. As soon as the Facilities Study is complete, the Transmission Provider shall make a copy of the completed Facilities Study available and tender a Service Agreement to the Transmission Customer. The Transmission Customer shall provide the Transmission Provider with a letter of credit or other reasonable form of security acceptable to the Transmission Provider equivalent to the costs of new facilities or upgrades in accordance with Attachment O and consistent with commercial practices as established under the laws of Canada and the Province of British Columbia. After being tendered with a Service Agreement, the Transmission Customer shall have thirty (30) Calendar Days to execute a Service Agreement or request the filing of an unexecuted Service Agreement and provide the required letter of credit or other form of security or the request will no longer be a Completed Application and shall be deemed terminated and withdrawn.

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19.5 Facilities Study Modifications

Any change in design arising from inability to site or construct facilities as proposed will require development of a revised good faith estimate. New good faith estimates also will be required in the event of new statutory or regulatory requirements that are effective before the completion of construction or other circumstances beyond the control of the Transmission Provider that significantly affect the final cost of new facilities or upgrades to be charged to the Transmission Customer pursuant to the provisions of Part II of the Tariff.

19.6 Due Diligence in Completing New Facilities

The Transmission Provider shall use due diligence to add necessary facilities or upgrade its Transmission System within a reasonable time. The Transmission Provider will not upgrade its existing or planned Transmission System in order to provide the requested Firm Point-To-Point Transmission Service if doing so would impair system reliability or otherwise impair or degrade existing firm service.

19.7 Partial Interim Service

If the Transmission Provider determines that it will not have adequate transfer capability to satisfy the full amount of a Completed Application for Firm Point-To-Point Transmission Service, the Transmission Provider nonetheless shall be obligated to offer and provide the portion of the requested Firm Point-To-Point Transmission Service that can be accommodated without addition of any facilities and through redispatch. However, the Transmission Provider shall not be obligated to provide the incremental amount of requested Firm Point-To-Point Transmission Service that requires the addition of facilities or upgrades to the Transmission System until such facilities or upgrades have been placed in service.

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Where this section applies to a Completed Application for Long-Term Firm Point-to-Point Service, the Transmission Provider shall offer the following partial interim service options:

- (a) the maximum amount of Long-Term Firm Point-to-Point Service that is available in the same quantity for each month of the term requested, or for a shorter term;
- (b) the maximum amount of Long-Term Firm Point-to-Point Service that is available in varying monthly quantities.

An offer of partial interim service described in (b) above may only be made in annual increments of service, the minimum term of which must contain at least twelve months of Reserved Capacity in an amount greater than zero megawatts. Notwithstanding any other provision of this Tariff, the Reserved Capacity for which a Transmission Customer that has accepted an offer of partial interim service described in (b) above must pay in each month is the maximum amount reserved for that month. Section 2.2 applies to Transmission Customers with partial interim service as described in (b) above provided that in order for the Transmission Customer to exercise its rights under Section 2.2 to continue to take transmission service at the end of its contract term where the Transmission System cannot accommodate all of the requests for transmission service. the Transmission Customer must not only agree to accept a term at least equal to a competing request by any new Eligible Customer, but must also agree to accept a quantity of Long-Term Firm Point-To-Point Service for each month of that term at least equal to the lesser of: (i) the maximum amount of Long-Term Firm Point-To-Point Service that is available in the same quantity for each month of the term; and (ii) the quantity of Long-Term Firm Point-To-Point Service requested by that new Eligible Customer in its competing request.

19.8 Expedited Procedures for New Facilities

In lieu of the procedures set forth above, the Eligible Customer shall have the option to expedite the process by requesting the Transmission Provider to tender at one time,

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together with the results of required studies, an "Expedited Service Agreement" pursuant to which the Eligible Customer would agree to compensate the Transmission Provider for all costs incurred pursuant to the terms of the Tariff. In order to exercise this option, the Eligible Customer shall request in writing an expedited Service Agreement covering all of the above-specified items within thirty (30) Calendar Days of receiving the results of the System Impact Study identifying needed facility additions or upgrades or costs incurred in providing the requested service. While the Transmission Provider agrees to provide the Eligible Customer with its best estimate of the new facility costs and other charges that may be incurred, such estimate shall not be binding and the Eligible Customer must agree in writing to compensate the Transmission Provider for all costs incurred pursuant to the provisions of the Tariff. The Eligible Customer shall execute and return such an Expedited Service Agreement within fifteen (15) Calendar Days of its receipt or the Eligible Customer's request for service will cease to be a Completed Application and will be deemed terminated and withdrawn.

19.9 Penalties for Failure to Meet Study Deadlines

Sections 19.3 and 19.4 require a Transmission Provider to use due diligence to meet 60 day study completion deadlines for System Impact Studies and Facilities Studies.

- (a) The Transmission Provider is required to file a notice with the Commission in the event that more than twenty (20) percent of non-Affiliates' System Impact Studies and Facilities Studies completed by the Transmission Provider in any two consecutive calendar quarters are not completed within the study completion deadlines. Such notice must be filed within thirty (30) days of the end of the calendar quarter triggering the notice requirement.
- (b) For the purposes of calculating the percent of non-Affiliates' System Impact Studies and Facilities Studies processed outside of the study completion deadlines, the Transmission Provider shall consider all System Impact Studies and Facilities Studies that it completes for non-Affiliates during the calendar quarter. The percentage should be calculated by

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dividing the number of those studies which are completed on time by the total number of completed studies. The Transmission Provider may provide an explanation in its notification filing to the Commission if it believes there are extenuating circumstances that prevented it from meeting the study completion deadlines.

- (c) The Transmission Provider is subject to an operational penalty if it completes ten (10) percent or more of non-Affiliates' System Impact Studies and Facilities Studies outside of the study completion deadlines for each of the two calendar quarters immediately following the quarter that triggered its notification filing to the Commission. The operational penalty will be assessed for each calendar quarter for which an operational penalty applies, starting with the calendar quarter immediately following the quarter that triggered the Transmission Provider's notification filing to the Commission. The operational penalty will continue to be assessed each quarter until the Transmission Provider completes at least ninety (90) percent of all non-Affiliates' System Impact Studies and Facilities Studies within the deadline.
- (d) For penalties assessed in accordance with subsection (c) above, the penalty amount for each System Impact Study or Facilities Study shall be equal to \$500 for each day the Transmission Provider takes to complete that study beyond the deadline.

20. Procedures if the Transmission Provider is Unable to Complete New Transmission Facilities for Long-Term Firm Point-To-Point Transmission Service

20.1 Delays in Construction of New Facilities

If any event occurs that will materially affect the time for completion of new facilities, or the ability to complete them, the Transmission Provider shall promptly notify the Transmission Customer. In such circumstances, the Transmission Provider shall within thirty (30) Calendar Days of notifying the Transmission Customer of such delays, convene a technical meeting with the Transmission Customer to evaluate the alternatives available to the Transmission Customer. The Transmission Provider also shall make available to the Transmission Customer studies and work papers related to

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the delay, including all information that is in the possession of the Transmission Provider that is reasonably needed by the Transmission Customer to evaluate any alternatives.

20.2 Alternatives to the Original Facility Additions

When the review process of Section 20.1 determines that one or more alternatives exist to the originally planned construction project, the Transmission Provider shall present such alternatives for consideration by the Transmission Customer. If, upon review of any alternatives, the Transmission Customer desires to maintain its Completed Application subject to construction of the alternative facilities, it may request the Transmission Provider to submit a revised Service Agreement for Long-Term Firm Point-To-Point Transmission Service. If the alternative approach solely involves Short-Term Firm or Non-Firm Point-To-Point Transmission Service, the Transmission Provider shall promptly tender an Umbrella Agreement for Short-Term Firm or Non-Firm Point-To-Point Transmission Service. In the event the Transmission Provider concludes that no reasonable alternative exists and the Transmission Customer disagrees, the Transmission Customer may seek relief under the dispute resolution procedures pursuant to Section 12 or it may refer the dispute to the Commission for resolution.

20.3 Refund Obligation for Unfinished Facility Additions

If the Transmission Provider and the Transmission Customer mutually agree that no other reasonable alternatives exist and the requested service cannot be provided out of existing capability under the conditions of Part II of the Tariff, the obligation to provide the requested Firm Point-To-Point Transmission Service shall terminate and any refundable deposit made by the Transmission Customer shall be returned with interest calculated at a rate equal to the average prime rate of the Transmission Provider's lead bank for the applicable period. However, the Transmission Customer shall be responsible for all prudently incurred costs by the Transmission Provider through the time construction was suspended.

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21. Provisions Relating to Transmission Construction and Services on the Systems of Other Utilities

21.1 Responsibility for Third-Party System Additions

The Transmission Provider shall not be responsible for making arrangements for any necessary engineering, permitting, and construction of transmission or distribution facilities on the system(s) of any other entity or for obtaining any regulatory approval for such facilities. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in obtaining such arrangements, including without limitation, providing any information or data required by such other electric system pursuant to Good Utility Practice.

21.2 Coordination of Third-Party System Additions

In circumstances where the need for transmission facilities or upgrades is identified pursuant to the provisions of Part II of the Tariff, and if such upgrades further require the addition of transmission facilities on other systems, the Transmission Provider shall have the right to coordinate construction on its own system with the construction required by others. The Transmission Provider, after consultation with the Transmission Customer and representatives of such other systems, may defer construction of its new transmission facilities, if the new transmission facilities on another system cannot be completed in a timely manner. The Transmission Provider shall notify the Transmission Customer in writing of the basis for any decision to defer construction and the specific problems which must be resolved before it will initiate or resume construction of new facilities. Within sixty (60) Calendar Days of receiving written notification by the Transmission Provider of its intent to defer construction pursuant to this section, the Transmission Customer may challenge the decision in accordance with the dispute resolution procedures pursuant to Section 12 or it may refer the dispute to the Commission for resolution.

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22. Changes in Service Specifications

22.1 Modifications On a Non-Firm Basis

The Transmission Customer taking Firm Point-To-Point Transmission Service may request the Transmission Provider to provide transmission service on a non-firm basis over Point(s) of Receipt and Point(s) of Delivery other than those specified in the Service Agreement or agreed on pursuant to an Umbrella Agreement (Secondary Receipt and Delivery Points), in amounts not to exceed its firm capacity reservation, without incurring an additional Non-Firm Point-To-Point Transmission Service charge or executing a new Service Agreement or Umbrella Agreement, subject to the following conditions.

- (a) Service provided over secondary Points of Receipt and Points of Delivery will be non-firm only, on an as-available basis and will not displace any firm or non-firm service reserved or scheduled by third-parties under the Tariff.
- (b) The sum of all Firm and Non-Firm Point-To-Point Transmission Service provided to the Transmission Customer at any time pursuant to this section shall not exceed the Reserved Capacity in the relevant Service Agreement or agreed on pursuant to an Umbrella Agreement under which such services are provided.
- (c) The Transmission Customer shall retain its right to schedule Firm Point-To-Point Transmission Service at the Point(s) of Receipt and Point(s) of Delivery specified in the relevant Service Agreement or agreed on pursuant to an Umbrella Agreement in the amount of its original capacity reservation.
- (d) Service over secondary Points of Receipt and Points of Delivery on a non-firm basis shall not require the filing of an Application for Non-Firm Point-To-Point Transmission Service under the Tariff. However, all other requirements of Part II of the Tariff (except as to transmission rates) shall apply to transmission service on a non-firm basis over secondary Points of Receipt and Points of Delivery.

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22.2 Modification On a Firm Basis

Any request by a Transmission Customer to modify Point(s) of Receipt and Point(s) of Delivery on a firm basis shall be treated as a new request for service in accordance with Section 17 hereof, except that such Transmission Customer shall not be obligated to pay any additional deposit if the capacity reservation does not exceed the amount reserved in the existing Service Agreement or agreed on pursuant to an Umbrella Agreement. While such new request is pending, the Transmission Customer shall retain its priority for service at the existing firm Point(s) of Receipt and Point(s) of Delivery specified in its Service Agreement or agreed on pursuant to an Umbrella Agreement.

23. Sale or Assignment of Transmission Service

23.1 Procedures for Assignment or Transfer of Service

Subject to Commission approval of any necessary filings, a Transmission Customer may sell, assign, or transfer all or a portion of its rights under its Service Agreement or Umbrella Agreement, but only to another Eligible Customer (the Assignee). The Transmission Customer that sells, assigns or transfers its rights under its Service Agreement or Umbrella Agreement is hereafter referred to as the Reseller. Compensation to the Reseller shall not exceed the higher of: (i) the original rate paid by the Reseller; (ii) the Transmission Provider's maximum rate on file at the time of the assignment; or (iii) the Reseller's opportunity cost capped at the Transmission Provider's cost of expansion. If the Assignee does not request any change in the Point(s) of Receipt or the Point(s) of Delivery, or a change in any other term or condition set forth in the original Service Agreement or Umbrella Agreement, the Assignee will receive the same services as did the Reseller and the priority of service for the Assignee will be the same as that of the Reseller. A Reseller should notify the Transmission Provider as soon as possible after any assignment or transfer of service occurs but in any event, notification must be provided prior to any provision of service to the Assignee. The Assignee will be subject to all terms and conditions of this Tariff. If the Assignee

requests a change in service, the reservation priority of service will be determined by the Transmission Provider pursuant to Section 13.2.

23.2 Limitations on Assignment or Transfer of Service

If the Assignee requests a change in the Point(s) of Receipt or Point(s) of Delivery on a firm basis, the request shall be treated as a new request for service in accordance with Section 22.2. If the Assignee requests a change in any other specifications set forth in the original Service Agreement or Umbrella Agreement, the Transmission Provider will consent to such change subject to the provisions of the Tariff, provided that the change will not impair the operation and reliability of the Transmission Provider's generation, transmission or distribution systems. The Assignee shall compensate the Transmission Provider for performing any System Impact Study needed to evaluate the capability of the Transmission System to accommodate the proposed change and any additional costs resulting from such change. The Reseller shall remain liable for the performance of all obligations under the Service Agreement or Umbrella Agreement, except as specifically agreed to by the Transmission Provider and the Reseller through an amendment to the Service Agreement or Umbrella Agreement.

23.3 Information on Assignment or Transfer of Service

In accordance with Section 4, all sales or assignments of capacity must be conducted through or otherwise posted on the Transmission Provider's OASIS on or before the date the reassigned service commences and are subject to Section 23.1. Resellers may also use the Transmission Provider's OASIS to post transmission capacity available for resale.

24. Metering and Power Factor Correction at Point(s) of Receipt and Point(s) of Delivery

24.1 Transmission Customer Obligations

Unless otherwise agreed, the Transmission Customer shall be responsible for installing and maintaining compatible metering and communications equipment to accurately account for the capacity and energy being transmitted under Part II of the Tariff and to communicate the information to the Transmission Provider. Such equipment shall remain the property of the Transmission Customer.

24.2 Transmission Provider Access to Metering Data

The Transmission Provider shall have access to metering data, which may reasonably be required to facilitate measurements and billing under the Service Agreement.

24.3 Power Factor

Unless otherwise agreed, the Transmission Customer is required to maintain a power factor within the same range as the Transmission Provider pursuant to Good Utility Practices. The power factor requirements are specified in the Service Agreement or Umbrella Agreement where applicable.

25. Compensation for Transmission Service

Rates for Firm and Non-Firm Point-To-Point Transmission Service are provided in Rate Schedule 01. The Transmission Provider shall use Part II of the Tariff to make its Third-Party Sales. The Transmission Provider shall account for such use at the applicable Tariff rates, pursuant to Section 8.

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26. Stranded Cost Recovery

The Transmission Provider may seek to recover stranded costs from the Transmission Customer pursuant to this Tariff in accordance with the terms, conditions and procedures approved by the Commission.

27. Compensation for New Facilities and Redispatch Costs

Whenever a System Impact Study performed by the Transmission Provider in connection with the provision of Firm Point-To-Point Transmission Service identifies the need for new facilities, the Transmission Customer shall be responsible for such costs in accordance with Attachment O. Whenever a System Impact Study performed by the Transmission Provider identifies capacity constraints that may be relieved by generation redispatch, the Transmission Provider shall use commercially reasonable efforts to procure generation resources for such redispatch and the Transmission Customer shall be responsible for the redispatch costs.

PART III. NETWORK INTEGRATION TRANSMISSION SERVICE

Preamble

The Transmission Provider will provide Network Integration Transmission Service pursuant to the applicable terms and conditions contained in the Tariff and Service Agreement. Network Integration Transmission Service allows the Network Customer to integrate, economically dispatch and regulate its current and planned Network Resources to serve its Network Load. Network Integration Transmission Service also may be used by the Network Customer to deliver economy energy purchases to its Network Load from non-designated resources on an as-available basis without additional charge. Transmission service for sales to non-designated loads will be provided pursuant to the applicable terms and conditions of Part II of the Tariff.

28. Nature of Network Integration Transmission Service

28.1 Scope of Service

Network Integration Transmission Service is a transmission service that allows Network Customers to efficiently and economically utilize their Network Resources (as well as other non-designated generation resources) to serve their Network Load located in the Transmission Provider's Control Area and any additional load that may be designated pursuant to Section 31.3 of the Tariff. The Network Customer taking Network Integration Transmission Service must obtain or provide Ancillary Services pursuant to Section 3.

28.2 Transmission Provider Responsibilities

The Transmission Provider will plan, construct, operate and maintain its Transmission System in accordance with Good Utility Practice and its planning obligations in Attachment K in order to provide the Network Customer with Network Integration Transmission Service over the Transmission Provider's Transmission System. The Transmission Provider shall include the Network Customer's Network Load in its

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Transmission System planning and shall, consistent with Good Utility Practice and Attachment K, and in accordance with Attachment P, endeavour to construct and place into service sufficient transfer capability to deliver the Network Customer's Network Resources to serve its Network Load.

28.3 Network Integration Transmission Service

The Transmission Provider will provide firm transmission service over its Transmission System to the Network Customer for the delivery of capacity and energy from its designated Network Resources to service its Network Loads.

28.4 Secondary Service

The Network Customer may use the Transmission Provider's Transmission System to deliver energy to its Network Loads from resources that have not been designated as Network Resources. Such energy shall be transmitted, on an as-available basis, at no additional charge. Secondary service shall not require the filing of an Application for Network Integration Transmission Service under the Tariff. However, all other requirements of Part III of the Tariff (except for transmission rates) shall apply to secondary service. Deliveries from resources other than Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service under Part II of the Tariff.

28.5 Real Power Losses

Real Power Losses are associated with all transmission service. The Network Customer is responsible for replacing losses associated with all transmission service as calculated by the Transmission Provider. The applicable Real Power Loss factors are set out in Rate Schedule 10.

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28.6 Restrictions on Use of Service

The Network Customer shall not use Network Integration Transmission Service for: (i) sales of capacity and energy to non-designated loads; or (ii) direct or indirect provision of transmission service by the Network Customer to third parties. All Network Customers taking Network Integration Transmission Service shall use Point-To-Point Transmission Service under Part II of the Tariff for any Third-Party Sale which requires use of the Transmission Provider's Transmission System. The Transmission Provider shall specify any appropriate charges and penalties and all related terms and conditions applicable in the event that a Network Customer uses Network Integration Transmission Service or secondary service pursuant to Section 28.4 to facilitate a wholesale sale that does not serve a Network Load. All related terms and conditions are specified in Attachment Q-2 and Tariff Supplement No. 3 of the Transmission Provider.

29. Initiating Service

29.1 Condition Precedent for Receiving Service

Subject to the terms and conditions of Part III of the Tariff, the Transmission Provider will provide Network Integration Transmission Service to any Eligible Customer, provided that: (i) the Eligible Customer completes an Application for service as provided under Part III of the Tariff; (ii) the Eligible Customer and the Transmission Provider complete the technical arrangements set forth in Sections 29.3 and 29.4; (iii) the Eligible Customer executes a Service Agreement pursuant to Attachment F for service under Part III of the Tariff or requests in writing that the Transmission Provider file a proposed unexecuted Service Agreement with the Commission; and (iv) the Eligible Customer executes a Network Operating Agreement with the Transmission Provider pursuant to Attachment G.

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29.2 Application Procedures

An Eligible Customer requesting service under Part III of the Tariff must submit an Application, which shall include a deposit approximating the charge for one month of service in accordance with Attachment L, to the Transmission Provider as far as possible in advance of the month in which service is to commence. Unless subject to the procedures in Section 2, Completed Applications for Network Integration Transmission Service will be assigned a priority according to the date and time the Application is received, with the earliest Application receiving the highest priority. Applications must be submitted by entering the information listed below on the Transmission Provider's OASIS. If the Transmission Provider's OASIS is not functioning, a Completed Application may be submitted by: (i) transmitting the required information to the Transmission Provider by telefax; or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the service priority of the Application. A Completed Application shall provide all of the information listed below together with such other information as may be required by the Commission:

- (a) The identity, address, telephone number, email address and facsimile number of the party requesting service;
- (b) A statement that the party requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (c) A description of the Network Load at each delivery point. This description should separately identify and provide the Eligible Customer's best estimate of the total loads to be served at each transmission voltage level, and the loads to be served from each Transmission Provider substation at the same transmission voltage level. The description should include a ten (10) year forecast of summer and winter load and resource requirements beginning with the first year after the service is scheduled to commence;

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- (d) The amount and location of any interruptible loads included in the Network Load. This shall include the summer and winter capacity requirements for each interruptible load (had such load not been interruptible), that portion of the load subject to interruption, the conditions under which an interruption can be implemented and any limitations on the amount and frequency of interruptions. An Eligible Customer should identify the amount of interruptible customer load (if any) included in the 10 year load forecast provided in response to (c) above;
- (e) A description of Network Resources (current and 10-year projection). For each onsystem Network Resource, such description shall include:
 - i. Unit size and amount of capacity from that unit to be designated as Network Resource
 - ii. VAR capability (both leading and lagging) of all generators
 - iii. Operating restrictions
 - 1. Any periods of restricted operations throughout the year
 - 2. Maintenance schedules
 - 3. Minimum loading level of unit
 - 4. Normal operating level of unit
 - 5. Any must-run unit designations required for system reliability or contract reasons
 - iv. Approximate variable generating cost (\$/MWH) for redispatch computations
 - v. Arrangements governing sale and delivery of power to third parties from generating facilities located in the Transmission Provider Control Area, where only a portion of unit output is designated as a Network Resource;

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- (f) Description of Eligible Customer's transmission system:
 - Load flow and stability data, such as real and reactive parts of the load, lines, transformers, reactive devices and load type, including normal and emergency ratings of all transmission equipment in a load flow format compatible with that used by the Transmission Provider
 - ii. Operating restrictions needed for reliability
 - iii. Operating guides employed by system operators
 - iv. Contractual restrictions or committed uses of the Eligible Customer's transmission system, other than the Eligible Customer's Network Loads and Resources
 - v. Location of Network Resources described in subsection (e) above
 - vi. 10 year projection of system expansions or upgrades
 - vii. Transmission System maps that include any proposed expansions or upgrades
 - viii. Thermal ratings of Eligible Customer's Control Area ties with other Control Areas;
- (g) Service Commencement Date and the term of the requested Network Integration Transmission Service. The minimum term for Network Integration Transmission Service is one (1) year;
- (h) A statement signed by an authorized officer from or agent of the Network Customer attesting that all of the Network Resources listed pursuant to Section 29.2(e) satisfy the following conditions: (1) the Network Customer owns the resource, has committed to purchase generation pursuant to an executed contract, or has

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committed to purchase generation where execution of a contract is contingent upon the availability of transmission service under Part III of the Tariff; and (2) the Network Resources do not include any resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis; and

(i) Any additional information required of the Transmission Customer as specified in the Transmission Provider's planning process established in Attachment K.

Subject to Attachment M-2, unless the Parties agree to a different time frame, the Transmission Provider must acknowledge the request within ten (10) Calendar Days of receipt. The acknowledgment must include a date by which a response will be sent to the Eligible Customer. Subject to Attachment M-2, if an Application fails to meet the requirements of this section, the Transmission Provider shall notify the Eligible Customer requesting service within fifteen (15) Calendar Days of receipt and specify the reasons for such failure. Wherever possible, the Transmission Provider will attempt to remedy deficiencies in the Application through informal communications with the Eligible Customer. If such efforts are unsuccessful fifteen (15) Calendar Days after notifying the Eligible Customer of the deficiencies, the Transmission Provider shall return the Application without prejudice to the Eligible Customer filing a new or revised Application that fully complies with the requirements of this section. The Eligible Customer will be assigned a new priority consistent with the date of the new or revised Application. The Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission.

29.3 Technical Arrangements to be Completed Prior to Commencement of Service

Network Integration Transmission Service shall not commence until the Transmission Provider and the Network Customer, or a third party, have completed installation of all equipment specified under the Network Operating Agreement consistent with Good

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Utility Practice and any additional requirements reasonably and consistently imposed to ensure the reliable operation of the Transmission System. Subject to Attachment M-2, the Transmission Provider shall exercise reasonable efforts, in coordination with the Network Customer, to complete such arrangements as soon as practicable taking into consideration the Service Commencement Date.

29.4 Network Customer Facilities

The provision of Network Integration Transmission Service shall be conditioned upon the Network Customer's constructing, maintaining and operating the facilities on its side of each delivery point or interconnection necessary to reliably deliver capacity and energy from the Transmission Provider's Transmission System to the Network Customer. The Network Customer shall be solely responsible for constructing or installing all facilities on the Network Customer's side of each such delivery point or interconnection.

30. Network Resources

30.1 Designation of Network Resources

Network Resources shall include all generation owned, purchased or leased by the Network Customer designated to serve Network Load under the Tariff. Network Resources may not include resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis. Any owned or purchased resources that were serving the Network Customer's loads under firm agreements entered into on or before the Service Commencement Date shall initially be designated as Network Resources until the Network Customer terminates the designation of such resources.

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30.2 Designation of New Network Resources

The Network Customer may designate a new Network Resource by providing the Transmission Provider with as much advance notice as practicable. A designation of a new Network Resource must be made through the Transmission Provider's OASIS by a request for modification of service pursuant to an Application under Section 29. This request must include a statement that the new network resource satisfies the following conditions: (1) the Network Customer owns the resource, has committed to purchase generation pursuant to an executed contract, or has committed to purchase generation where execution of a contract is contingent upon the availability of transmission service under Part III of the Tariff; and (2) The Network Resources do not include any resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis. The Network Customer's request will be deemed deficient if it does not include this statement and the Transmission Provider will follow the procedures for a deficient application as described in Section 29.2 of the Tariff.

30.3 Termination of Network Resources

The Network Customer may terminate the designation of all or part of a generating resource as a Network Resource at any time but should provide notification to the Transmission Provider as soon as reasonably practicable.

30.4 Operation of Network Resources

The Network Customer shall not operate its designated Network Resources located in the Network Customer's or Transmission Provider's Control Area such that the output of those facilities exceeds its designated Network Load, plus Non-Firm Sales delivered pursuant to Part II of the Tariff, plus losses, plus power sales under a reserve sharing program. This limitation shall not apply to changes in the operation of a Transmission Customer's Network Resources at the request of the Transmission Provider to respond to an emergency or other unforeseen condition, which may impair or degrade the

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reliability of the Transmission System. For all Network Resources not physically connected with the Transmission Provider's Transmission System, the Network Customer may not schedule delivery of energy in excess of the Network Resource's capacity, as specified in the Network Customer's Application pursuant to Section 29, unless the Network Customer supports such delivery within the Transmission Provider's Transmission System by either obtaining Point-to-Point Transmission Service or utilizing secondary service pursuant to Section 28.4. The Transmission Provider shall specify the rate treatment and all related terms and conditions applicable in the event that a Network Customer's schedule at the delivery point for a Network Resource not physically interconnected with the Transmission Provider's Transmission System exceeds the Network Resource's designated capacity, excluding energy delivered using secondary service or Point-to-Point Transmission Service.

30.5 Network Customer Redispatch Obligation

As a condition to receiving Network Integration Transmission Service, the Network Customer agrees to redispatch its Network Resources as requested by the Transmission Provider pursuant to Section 33.2. To the extent practical, the redispatch of resources pursuant to this section shall be on a least cost, non-discriminatory basis between all Network Customers, and the Transmission Provider.

30.6 Transmission Arrangements for Network Resources Not Physically Interconnected With the Transmission Provider

The Network Customer shall be responsible for any arrangements necessary to deliver capacity and energy from a Network Resource not physically interconnected with the Transmission Provider's Transmission System. The Transmission Provider will undertake reasonable efforts to assist the Network Customer in obtaining such arrangements, including without limitation, providing any information or data required by such other entity pursuant to Good Utility Practice.

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30.7 Limitation on Designation of Network Resources

The Network Customer must demonstrate that it owns or has committed to purchase generation pursuant to an executed contract in order to designate a generating resource as a Network Resource. Alternatively, the Network Customer may establish that execution of a contract is contingent upon the availability of transmission service under Part III of the Tariff.

30.8 Use of Interface Capacity by the Network Customer

There is no limitation upon a Network Customer's use of the Transmission Provider's Transmission System at any particular interface to integrate the Network Customer's Network Resources (or substitute economy purchases) with its Network Loads . However, a Network Customer's use of the Transmission Provider's total interface capacity with other transmission systems may not exceed the Network Customer's Load.

30.9 Network Customer Owned Transmission Facilities

The Network Customer that owns existing transmission facilities that are integrated with the Transmission Provider's Transmission System may be eligible to receive consideration either through a billing credit or some other mechanism. In order to receive such consideration the Network Customer must demonstrate that its transmission facilities are integrated into the plans or operations of the Transmission Provider to serve its power and transmission customers. For facilities added by the Network Customer subsequent to the date new rate schedules of the Transmission Provider implementing the proposed revisions herein are made effective by the Commission, the Network Customer shall receive credit for such transmission facilities added if such facilities are integrated into the operations of the Transmission Provider's facilities are integrated if such facilities, if owned by the Transmission Provider, would be eligible for inclusion in the Transmission Provider's annual transmission revenue requirement as specified in Attachment H. Calculation of any credit under this subsection shall be

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addressed in either the Network Customer's Service Agreement or any other agreement between the Parties.

31. Designation of Network Load

31.1 Network Load

The Network Customer must designate the individual Network Loads on whose behalf the Transmission Provider will provide Network Integration Transmission Service. The Network Loads shall be specified in the Service Agreement.

31.2 New Network Loads Connected With the Transmission Provider

The Network Customer shall provide the Transmission Provider with as much advance notice as reasonably practicable of the designation of new Network Load that will be added to its Transmission System. A designation of new Network Load must be made by a request for a modification of service pursuant to a new Application under Section 29. The Transmission Provider will use due diligence to install any transmission facilities required to interconnect a new Network Load designated by the Network Customer. The costs of new facilities required to interconnect a new Network a new Network Load shall be determined in accordance with the procedures provided in Section 32.4 and shall be charged to the Network Customer in accordance with Commission policies.

31.3 Network Load Not Physically Interconnected With the Transmission Provider

This section applies to both initial designation pursuant to Section 31.1 and the subsequent addition of new Network Load not physically interconnected with the Transmission Provider. To the extent that the Network Customer desires to obtain transmission service for a load outside the Transmission Provider's Transmission System, the Network Customer shall have the option of: (i) electing to include the entire load as Network Load for all purposes under Part III of the Tariff and designating Network Resources in connection with such additional Network Load; or (ii) excluding

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that entire load from its Network Load and purchasing Point-To-Point Transmission Service under Part II of the Tariff. To the extent that the Network Customer gives notice of its intent to add a new Network Load as part of its Network Load pursuant to this section the request must be made by a request for modification of service pursuant to a new Application under Section 29.

31.4 New Interconnection Points

To the extent the Network Customer desires to add a new delivery point or interconnection point between the Transmission Provider's Transmission System and a Network Load, the Network Customer shall provide the Transmission Provider with as much advance notice as reasonably practicable.

31.5 Changes in Service Requests

Under no circumstances shall the Network Customer's decision to cancel or delay a requested change in Network Integration Transmission Service (e.g. the addition of a new Network Resource or designation of a new Network Load) in any way relieve the Network Customer of its obligation to pay the costs of transmission facilities constructed by the Transmission Provider and charged to the Network Customer as reflected in the Service Agreement. However, the Transmission Provider must treat any requested change in Network Integration Transmission Service in a non-discriminatory manner.

31.6 Annual Load and Resource Information Updates

The Network Customer shall provide the Transmission Provider with annual updates of Network Load and Network Resource forecasts consistent with those included in its Application for Network Integration Transmission Service under Part III of the Tariff including, but not limited to, any information provided under section 29.2(i) pursuant to the Transmission Provider's planning process in Attachment K. The Network Customer also shall provide the Transmission Provider with timely written notice of material changes in any other information provided in its Application relating to the Network

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Customer's Network Load, Network Resources, its transmission system or other aspects of its facilities or operations affecting the Transmission Provider's ability to provide reliable service.

32. Additional Study Procedures For Network Integration Transmission Service Requests

32.1 Notice of Need for System Impact Study

After receiving a request for service, the Transmission Provider shall determine on a non-discriminatory basis whether a System Impact Study is needed. A description of the Transmission Provider's methodology for completing a System Impact Study is provided in Attachment D. Subject to Attachment M-2, if the Transmission Provider determines that a System Impact Study is not necessary, the Transmission Provider shall within thirty (30) Calendar Days of receipt of a Completed Application tender a Service Agreement and, within fifteen (15) Calendar Days of the tendering of the Service Agreement, the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement, or the Application shall be deemed terminated and withdrawn. Subject to Attachment M-2, if the Transmission Provider determines that a System Impact Study is necessary to accommodate the requested service, it shall so inform the Eligible Customer, as soon as practicable. Subject to Attachment M-2, in such cases, the Transmission Provider shall within thirty (30) Calendar Days of receipt of a Completed Application, tender a System Impact Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required System Impact Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the System Impact Study Agreement and return it with a refundable deposit of \$50,000 in accordance with Attachment L to the Transmission Provider within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the System Impact Study Agreement or not to provide the required deposit in accordance with Attachment L, its Application shall be deemed withdrawn and its deposit shall be returned pursuant to Section 17.3.

ACCEPTED:_____

ORDER NO._____

32.2 System Impact Study Agreement and Cost Reimbursement

- (a) The System Impact Study Agreement will clearly specify the Transmission Provider's estimate of the actual cost, and time for completion of the System Impact Study. The charge shall not exceed the actual cost of the study. In performing the System Impact Study, the Transmission Provider shall rely, to the extent reasonably practicable, on existing transmission planning studies. The Eligible Customer will not be assessed a charge for such existing studies; however, the Eligible Customer will be responsible for charges associated with any modifications to existing planning studies that are reasonably necessary to evaluate the impact of the Eligible Customer's request for service on the Transmission System.
- (b) If in response to multiple Eligible Customers requesting service in relation to the same competitive solicitation, a single System Impact Study is sufficient for the Transmission Provider to accommodate the service requests, the costs of that study shall be pro-rated among the Eligible Customers.
- (c) For System Impact Studies that the Transmission Provider conducts on its own behalf, the Transmission Provider shall record the cost of the System Impact Studies pursuant to Section 8.

32.3 System Impact Study Procedures

Upon receipt of an executed System Impact Study Agreement, the Transmission Provider will use due diligence to complete the required System Impact Study within a sixty (60) Calendar Day period or as otherwise agreed to with the Network Customer. The System Impact Study shall identify (1) any system constraints, identified with specificity by transmission element or flowgate, (2) redispatch options (when requested by an Eligible Customer) including, to the extent possible, an estimate of the cost of redispatch, (3) available options for installation of automatic devices to curtail service (when requested by an Eligible Customer), and (4) additional Direct Assignment

ACCEPTED:_____

ORDER NO._____

Facilities or Network Upgrades required to provide the requested service. For customers requesting the study of redispatch options, the System Impact Study shall (1) identify all resources located within the Transmission Provider's Control Area that can significantly contribute toward relieving the system constraint and (2) provide a measurement of each resource's impact on the system constraint. If the Transmission Provider possesses information indicating that any resource outside its Control Area could relieve the constraint, it shall identify each such resource in the System Impact Study. In the event that the Transmission Provider is unable to complete the required System Impact Study within such time period, it shall so notify the Eligible Customer and provide an estimated completion date along with an explanation of the reasons why additional time is required to complete the required studies. A copy of the completed System Impact Study and related work papers shall be made available to the Eligible Customer as soon as the System Impact Study is complete. The Transmission Provider will use the same due diligence in completing the System Impact Study for an Eligible Customer as it uses when completing studies for itself. The Transmission Provider shall notify the Eligible Customer immediately upon completion of the System Impact Study if the Transmission System will be adequate to accommodate all or part of a request for service or that no costs are likely to be incurred for new transmission facilities or upgrades. In order for a request to remain a Completed Application, within fifteen (15) Calendar Days of completion of the System Impact Study the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement, or the Application shall be deemed terminated and withdrawn.

32.4 Facilities Study Procedures

If a System Impact Study indicates that additions or upgrades to the Transmission System are needed to supply the Eligible Customer's service request, the Transmission Provider, within thirty (30) Calendar Days of the completion of the System Impact Study, shall tender to the Eligible Customer a Facilities Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required Facilities Study. For a service request to remain a Completed Application, the

ACCEPTED:

Eligible Customer shall execute the Facilities Study Agreement and return it with a refundable deposit of \$100,000 in accordance with Attachment L to the Transmission Provider within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the Facilities Study Agreement or not to provide the required deposit in accordance with Attachment L, its Application shall be deemed withdrawn and its deposit shall be returned pursuant to Section 17.3. Upon receipt of an executed Facilities Study Agreement, the Transmission Provider will use due diligence to complete the required Facilities Study within a sixty (60) Calendar Day period or as otherwise agreed to with the Network Customer. If the Transmission Provider is unable to complete the Facilities Study in the allotted time period, the Transmission Provider shall notify the Eligible Customer and provide an estimate of the time needed to reach a final determination along with an explanation of the reasons that additional time is required to complete the study. When completed, the Facilities Study will include a good faith estimate of: (i) the cost of Direct Assignment Facilities to be charged to the Eligible Customer; (ii) the Eligible Customer's appropriate share of the cost of any required Network Upgrades; and (iii) the time required to complete such construction and initiate the requested service. As soon as the Facilities Study is complete, the Transmission Provider shall make a copy of the completed Facilities Study available and tender a Service Agreement to the Eligible Customer. The Eligible Customer shall provide the Transmission Provider with a letter of credit or other reasonable form of security acceptable to the Transmission Provider equivalent to the costs of new facilities or upgrades in accordance with Attachment O and consistent with commercial practices as established under the laws of Canada and the Province of British Columbia. After being tendered with a Service Agreement, the Eligible Customer shall have sixty (60) Calendar Days to execute a Service Agreement or request the filing of an unexecuted Service Agreement and provide the required letter of credit or other form of security or the request no longer will be a Completed Application and shall be deemed terminated and withdrawn.

ACCEPTED:

32.5 Penalties for Failure to Meet Study Deadlines

Section 19.9 defines penalties that apply for failure to meet the study completion due diligence deadlines for System Impact Studies and Facilities Studies under Part II of the Tariff. These same requirements and penalties apply to service under Part III of the Tariff.

33. Load Shedding and Curtailments

33.1 Procedures

Prior to the Service Commencement Date, the Transmission Provider and the Network Customer shall establish Load Shedding and Curtailment procedures pursuant to the Network Operating Agreement with the objective of responding to contingencies on the Transmission System. The Parties will implement such programs during any period when the Transmission Provider determines that a system contingency exists and such procedures are necessary to alleviate such contingency. The Transmission Provider will notify all affected Network Customers in a timely manner of any scheduled Curtailment.

33.2 Transmission Constraints

During any period when the Transmission Provider determines that a transmission constraint exists on the Transmission System, and such constraint may impair the reliability of the Transmission Provider's system, the Transmission Provider will take whatever actions, consistent with Good Utility Practice, that are reasonably necessary to maintain the reliability of the Transmission Provider's system. To the extent the Transmission Provider determines that the reliability of the Transmission System can be maintained by redispatching resources, the Transmission Provider will initiate procedures pursuant to the Network Operating Agreement to redispatch all Network Resources on a least-cost basis without regard to the ownership of such resources. Any redispatch under this section may not unduly discriminate among any Network Customer's use of the Transmission System to serve its designated Network Load.

ACCEPTED:

33.3 Cost Responsibility for Relieving Transmission Constraints

Whenever the Transmission Provider implements least-cost redispatch procedures in response to a transmission constraint, the Network Customers will each bear a proportionate share of the total redispatch cost based on their respective Load Ratio Shares.

33.4 Curtailments of Scheduled Deliveries

If a transmission constraint on the Transmission Provider's Transmission System cannot be relieved through the implementation of least-cost redispatch procedures and the Transmission Provider determines that it is necessary to curtail scheduled deliveries, the Parties shall curtail such schedules in accordance with the Network Operating Agreement.

33.5 Allocation of Curtailments

The Transmission Provider shall, on a non-discriminatory basis, curtail the transaction(s) that effectively relieve the constraint. However, to the extent practicable and consistent with Good Utility Practice, any curtailment will be shared by the Network Customers in proportion to their respective Load Ratio Shares.

33.6 Load Shedding

To the extent that a system contingency exists on the Transmission Provider's Transmission System and the Transmission Provider determines that it is necessary for the Network Customer to shed load, the Network Customer shall shed load in accordance with previously established procedures under the Network Operating Agreement.

ACCEPTED:

ORDER NO.

COMMISSION SECRETARY

33.7 System Reliability

Notwithstanding any other provisions of this Tariff, the Transmission Provider reserves the right, consistent with Good Utility Practice and on a not unduly discriminatory basis, to curtail Network Integration Transmission Service without liability on the Transmission Provider's part for the purpose of making necessary adjustments to, changes in, or repairs on its lines, substations and facilities, and in cases where the continuance of Network Integration Transmission Service would endanger persons or property. In the event of any adverse condition(s) or disturbance(s) on the Transmission Provider's Transmission System or on any other system(s) directly or indirectly interconnected with the Transmission Provider's Transmission System, the Transmission Provider, consistent with Good Utility Practice, also may curtail Network Integration Transmission Service in order to: (i) limit the extent or damage of the adverse condition(s) or disturbance(s); (ii) prevent damage to generating or transmission facilities; or (iii) expedite restoration of service. The Transmission Provider will give the Network Customer as much advance notice as is practicable in the event of such curtailment. The Transmission Provider shall specify the rate treatment and all related terms and conditions applicable in the event that the Network Customer fails to respond to established Load Shedding and Curtailment procedures.

34. Rates and Charges

The Network Customer shall pay the Transmission Provider for any Direct Assignment Facilities, Ancillary Services, and applicable study costs pursuant to this Tariff, along with the following:

34.1 Monthly Demand Charge

The Network Customer shall pay a monthly Demand Charge, which shall be determined by multiplying its Load Ratio Share times one twelfth (1/12) of the Transmission Provider's Annual Transmission Revenue Requirement specified in Attachment H.

ACCEPTED:

34.2 Determination of Network Customer's Monthly Network Load

The Network Customer's monthly Network Load is its hourly load expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis (including its designated Network Load not physically interconnected with the Transmission Provider under Section 31.3) coincident with the Transmission Provider's Monthly Transmission System Peak.

34.3 Determination of Transmission Provider's Monthly Transmission System Load

The Transmission Provider's monthly Transmission System load is the Transmission Provider's Monthly Transmission System Peak minus the coincident peak usage of all Firm Point-To-Point Transmission Service customers pursuant to Part II of this Tariff plus the Reserved Capacity of all Firm Point-To-Point Transmission Service customers.

34.4 Redispatch Charge

The Network Customer shall pay a Load Ratio Share of any redispatch costs allocated among the Network Customers pursuant to Section 33. To the extent that the Transmission Provider incurs an obligation to the Network Customer for redispatch costs in accordance with Section 33, such amounts shall be credited against the Network Customer's bill for the applicable month.

34.5 Stranded Cost Recovery

The Transmission Provider may seek to recover stranded costs from the Network Customer pursuant to this Tariff in accordance with the terms, conditions and procedures approved by the Commission.

ACCEPTED:

35. Operating Arrangements

35.1 Operation Under the Network Operating Agreement

The Network Customer shall plan, construct, operate and maintain its facilities in accordance with Good Utility Practice and in conformance with the Network Operating Agreement.

35.2 Network Operating Agreement

The terms and conditions under which the Network Customer shall operate its facilities and the technical and operational matters associated with the implementation of Part III of the Tariff shall be specified in the Network Operating Agreement. The Network Operating Agreement shall provide for the Parties to: (i) operate and maintain equipment necessary for integrating the Network Customer within the Transmission Provider's Transmission System (including, but not limited to, remote terminal units, metering, communications equipment and relaying equipment); (ii) transfer data between the Transmission Provider and the Network Customer (including, but not limited to, heat rates and operational characteristics of Network Resources, generation schedules for units outside the Transmission Provider's Transmission System, interchange schedules, unit outputs for redispatch required under Section 33, voltage schedules, loss factors and other real time data); (iii) use software programs required for data links and constraint dispatching; (iv) exchange data on forecasted loads and resources necessary for long-term planning; and (v) address any other technical and operational considerations required for implementation of Part III of the Tariff, including scheduling protocols. The Network Operating Agreement will recognize that the Network Customer shall either: (i) operate as a Control Area under applicable reliability standards adopted by the Commission; or (ii) satisfy its Control Area requirements, including all necessary Ancillary Services, by contracting with the Transmission Provider; or (iii) satisfy its Control Area requirements, including all necessary Ancillary Services, by contracting with another entity, consistent with Good Utility Practice, which satisfies applicable

ACCEPTED:_____

reliability requirements. The Transmission Provider shall not unreasonably refuse to accept contractual arrangements with another entity for Ancillary Services. The Network Operating Agreement is included in Attachment G.

35.3 Network Operating Committee

A Network Operating Committee (Committee) shall be established to coordinate operating criteria for the Parties' respective responsibilities under the Network Operating Agreement. Each Network Customer shall be entitled to have at least one representative on the Committee. The Committee shall meet from time to time as need requires, but no less than once each calendar year.

ACCEPTED:

ATTACHMENT A

Umbrella Agreement for Short-Term Firm or Non-Firm Point-To-Point Transmission Service

- This Agreement, dated as of ______, is entered into, by and between ______ (the Transmission Provider, or BC Hydro), and ______ (the Transmission Customer).
- 2. This Agreement shall come into force upon execution by both Parties. From the time this Agreement comes into force, the Transmission Customer shall be entitled to arrange Short-Term Firm and Short-Term Non-Firm transactions over OASIS without executing a Service Agreement provided that such transactions do not exceed \$______ in any calendar month. BC Hydro reserves the right to consent to larger monthly transactions on a case-by-case basis.
- Identify any affiliates that own, control or operate any transmission facilities. If there are none, include a sworn statement pursuant to Section 6.0 of Transmission Provider's OATT (the Tariff).
- 4. Billing and Payment
 - 4.1 BC Hydro will submit invoices to the Transmission Customer after the end of each month in which transactions were made.
 - 4.2 Canadian Transmission Customers will be invoiced in Canadian funds. US Transmission Customers will be invoiced in US funds, all using the exchange rate as defined in the Transmission Provider'sBusiness Practices.
 - 4.3 Payment shall be remitted in accordance with the terms and conditions of the Tariff.

ACCEPTED:____

ORDER NO.

COMMISSION SECRETARY

- 5. This Agreement shall remain in effect until terminated by either Party on at least thirty (30) Calendar Days written notice to the other. Notwithstanding termination, all commitments, transactions and payment liabilities incurred under this Agreement shall remain until satisfied.
- 6. Service under this Agreement shall be provided by the Transmission Provider upon request by an authorized representative of the Transmission Customer.
- 7. The Transmission Customer agrees to supply information the Transmission Provider deems reasonably necessary in accordance with Good Utility Practice in order for it to provide the requested service.
- 8. The Transmission Provider agrees to provide and the Transmission Customer agrees to take and pay for Short-Term Firm or Non-Firm Point-To-Point Transmission Service in accordance with the provisions of Part II of the Tariff and this Agreement.
- 9. Any notice or request made to or by either Party regarding this Agreement shall be made to the representative of the other Party as indicated below.

Transmission Provider:

Transmission Customer:

10. Miscellaneous

- 10.1 This Agreement shall be interpreted in accordance with the laws of the Province of British Columbia.
- 10.2 This Agreement shall be binding upon and shall inure to the benefit of the Parties and their respective successors.

ACCEPTED:_____

ORDER NO._____

COMMISSION SECRETARY

- 10.3 This Agreement shall be subject to the Parties obtaining and maintaining any required regulatory approvals.
- 11. The signatories hereby represent that they have been appropriately authorized to execute this Agreement on behalf of the Party for whom they sign.
- 12. The Tariff is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective authorized officials.

Transmission Provider:

By:			
•	Name	Title	Date
<u>Transr</u>	nission Customer:		
By:	Name	Title	Date

ACCEPTED:

ATTACHMENT A-1

Form of Service Agreement for the Resale, Reassignment, or Transfer of Short-Term Firm Point-To-Point Transmission Service

Reserved

ACCEPTED:_____

ATTACHMENT B

Form of Service Agreement for Long-Term Firm Point-To-Point Transmission Service

- This Service Agreement, dated as of ______, is entered into, by and between ______ (the Transmission Provider or BC Hydro), and ______ (the Transmission Customer).
- 2. The Transmission Customer has been determined by the Transmission Provider to have a Completed Application for Long-Term Firm Point-To-Point Transmission Service under the Transmission Provider's OATT (the Tariff).
- The Transmission Customer has provided to the Transmission Provider an Application deposit in accordance with the provisions of Section 17.3 of the Tariff or the Transmission Customer has satisfied the Creditworthiness Criteria as set out in Attachment L of the OATT.
- 4. Service under this agreement shall commence on the later of: (I) the requested service commencement date; or (2) the date on which construction of any Direct Assignment Facilities and/or Network Upgrades are completed; or (3) such other date as it is permitted to become effective by the Commission. Service under this agreement shall terminate on such date as mutually agreed upon by the parties.
- The Transmission Customer acknowledges that, prior to entering this Service Agreement, the Transmission Provider has determined that at the end of the contract term of this Service Agreement,
 - there is sufficient capacity to accommodate both the future rollover of this Service Agreement by the Transmission Customer and to provide service to Transmission Customers having earlier priority for transmission service.

ACCEPTED:

(b) there is **insufficient** capacity to accommodate both the future rollover of this Service Agreement by the Transmission Customer and transmission service to Transmission Customers having earlier priority. Therefore, even if there is sufficient capacity at the end of the contract term of this Service Agreement, the Transmission Customer has no rollover rights with respect to this Service Agreement.

[one of (a) or (b) to be deleted prior to tender]

- 6. The Transmission Provider agrees to provide and the Transmission Customer agrees to take and pay for Firm Point-To-Point Transmission Service in accordance with the provisions of Part II of the Tariff and this Service Agreement.
- 7. Any notice or request made to or by either Party regarding this Service Agreement shall be made to the representative of the other Party as indicated below.

Transmission Provider:

Transmission Customer:

- 8. No failure by BC Hydro or the Transmission Customer at any time or from time to time to enforce or require a strict observance of any of the provisions of this Service Agreement shall constitute a waiver of the provision or affect or impair such provisions or the right of BC Hydro or the Transmission Customer at any time to enforce such provisions or to avail itself of any remedy it may have.
- 9. (a) This Service Agreement shall be construed in accordance with the laws of the Province of British Columbia; and

ACCEPTED:_____

ORDER NO._____

COMMISSION SECRETARY

- (b) BC Hydro and the Transmission Customer will promptly comply with all relevant laws and regulations and the relevant orders, rules and requirements of all authorities having jurisdiction.
- 10. Nothing contained in this Service Agreement shall restrict or limit either Party from establishing, altering or terminating interconnection points with any entity not a party to this Service Agreement or amending or entering into such agreements.
- 11. This Service Agreement shall inure to the benefit of and be binding upon the Parties and their respective successors.
- 12. The Tariff and the attached Specifications for Long-Term Firm Point-To-Point Transmission Service is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Parties have caused this Service Agreement to be executed by their respective authorized officials.

Transmission Provider:

Name

Transmission Customer:

By:

Title

Date

By:

Name

Title

Date

ACCEPTED:

Specifications For Long-Term Firm Point-To-Point Transmission Service

- 2. Description of capacity and energy to be transmitted by Transmission Provider including the electric Control Area in which the transaction originates.
- 3. Point(s) of Receipt: _____ Delivering Party: _____
- 4. Point(s) of Delivery: ______ Receiving Party: _____
- 5. Maximum amount of capacity and energy to be transmitted (Reserved Capacity):
- 6. Designation of party(ies) subject to reciprocal service obligation:
- 7. Name(s) of any Intervening Systems providing transmission service:
- Service under this Agreement may be subject to some combination of the charges detailed below. (The appropriate charges for individual transactions will be determined in accordance with the terms and conditions of the Tariff.)
 - 8.1 Transmission Charge:

ACCEPTED:_____

ORDER NO._____

COMMISSION SECRETARY

BC Hydro Open Access Transmission Tariff Effective: 05 July 2010 OATT Attachment B Page 5

8.2 System Impact and/or Facilities Study Charge(s):

8.3 Direct Assignment Facilities Charge:

8.4 Ancillary Services Charges:

ACCEPTED:_____

ATTACHMENT B-1

Form of Service Agreement for the Resale, Reassignment, or Transfer of Long-Term Firm Point-To-Point Transmission Service

Reserved

ACCEPTED:_____

ATTACHMENT C

Methodology To Assess Available Transfer Capability

The Transmission Provider will assess the capability of the Transmission System to provide the services requested using its published criteria, standards and procedures.

In determining the level of transfer capability that is available to meet new Transmission Service requests, the Transmission Provider will exclude from the total transfer capability of the Transmission System that capacity needed to reliably meet:

- 1. the current and reasonably forecasted load of Network Customers;
- 2. existing firm Point-to-Point Transmission Services;
- previously received pending Applications for firm Point-to-Point Transmission Service; and
- 4. existing contractual obligations under other tariffs, rate schedules and contracts.

Notwithstanding any other provision in this Tariff, the Transmission Provider shall limit sales of Firm Point-to-Point Transmission Service on the BC>AB path to 480 MW.

ACCEPTED:_____

ATTACHMENT D

Methodology for Completing a System Impact Study

BC Hydro will perform system planning studies and apply its published planning criteria, standards and procedures to determine the impacts of the requested Transmission Service. The transfer capability of the system will be assessed for the period of the requested service to determine if the requested service can be accommodated. Thermal loading, transient stability, and voltage stability limits will be investigated for normal and outage conditions. If this analysis indicates that the requested Transmission Service cannot be accommodated, then alternative reinforcements will be investigated. A least cost transmission expansion plan will be developed for consideration by BC Hydro and the Transmission Customer and will include but not be limited to the following considerations: technical, economic, reliability, losses, environmental and social. The Transmission Customer can decide whether to proceed, modify, or cancel its request. More details can be found in the BC Hydro System Planning document entitled "Planning Process".

ATTACHMENT E

Index of Point-To-Point Transmission Service Customers

Customer

Date of Service Agreement

ACCEPTED:_____

ATTACHMENT F

Form of Service Agreement for Network Integration Transmission Service

- This Service Agreement, dated as of ______, is entered into, by and between ______ (the Transmission Provider or BC Hydro), and ______ (the Transmission Customer).
- The Transmission Customer has been determined by the Transmission Provider to have a Completed Application for Network Integration Transmission Service under the Transmission Provider's OATT (the Tariff).
- 3. The Transmission Customer has provided to the Transmission Provider any Application deposit required under the provisions of Section 29.2 of the Tariff.
- 4. Service under this agreement shall commence on the later of: (1) the requested service commencement date; or (2) the date on which construction of any Direct Assignment Facilities and/or Network Upgrades are completed; or (3) such other date as it is permitted to become effective by the British Columbia Utilities Commission. Service under this agreement shall terminate on such date as mutually agreed upon by the parties.
- 5. The Transmission Provider agrees to provide and the Transmission Customer agrees to take and pay for Network Integration Transmission Service in accordance with the provisions of Part III of the Tariff and this Service Agreement.
- 6. Any notice or request made to or by either Party regarding this Service Agreement shall be made to the representative of the other Party as indicated below.

ACCEPTED:

Transmission Provider:

Transmission Customer:

- 7. No failure by BC Hydro or the Transmission Customer at any time or from time to time to enforce or require a strict observance of any of the provisions of this Service Agreement shall constitute a waiver of the provision or affect or impair such provisions or the right of BC Hydro or the Transmission Customer at any time to enforce such provisions or to avail itself of any remedy it may have.
- 8. (a) This Service Agreement shall be construed in accordance with the laws of the Province of British Columbia; and
 - (b) BC Hydro and the Transmission Customer will promptly comply with all relevant laws and regulations and the relevant orders, rules and requirements of all authorities having jurisdiction.
- Nothing contained in this Service Agreement shall restrict or limit either Party from establishing, altering or terminating interconnection points with any entity not a party to this Service Agreement or amending or entering into such agreements.
- 10. This Service Agreement shall inure to the benefit of and be binding upon the Parties and their respective successors.

ACCEPTED:_____

- 11. The Network Operating Agreement containing the terms and conditions under which the Transmission Customer will operate its facilities and the technical specifications associated with service under this Service Agreement are hereby incorporated and made part of this Service Agreement as Appendix C.
- 12. The Tariff and the attached Specifications For Network Integration Transmission Service is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Parties have caused this Service Agreement to be executed by their respective authorized officials.

Transmission Provider:

By:			
,	Name	Title	Date
Trans	smission Customer:		
By:			
,	Name	Title	Date

Specifications For Network Integration Transmission Service

1.	Term of Transaction:		
2.	Description of capacity and/or energy to be transmitted by the Transmission Provider across its Transmission System (including electric control area in which the transaction originates).		
3.	Network Resources		
	(1) Transmission Customer Generation Owned: <u>Resource</u> <u>Capacity</u> Capacity Designated as <u>Network Resources</u>		
	(2) Transmission Customer Generation Purchased: <u>Source</u> <u>Capacity</u>		
	(3) Total Network Resources: (1) + (2) =		
4.	Network Load:		
	Network Load Transmission Voltage Level		

5. Point(s) of Interconnection:

ACCEPTED:_____

6. Point(s) of Delivery:

Delivering Party:

- 7. Designation of Party subject to reciprocal service obligation:
- 8. Name(s) of any Intervening Systems providing transmission service:

ACCEPTED:_____

ATTACHMENT G

Network Operating Agreement

This Network Operating Agreement (the Agreement), is made and entered into this _____ day of _____, 2__, by and between <u>(Customer)</u> (hereinafter referred to as the Transmission Customer) and BC Hydro. The Transmission Customer and BC Hydro hereinafter are sometimes referred to individually as "Party" and collectively as "Parties", as the context suggests below.

In consideration of the promises and mutual covenants and agreements herein contained, the Parties do agree as follows:

1. <u>Definitions</u>

Unless otherwise specified herein, capitalized terms shall refer to terms defined in the Transmission Provider's OATT (the Tariff). When the terms Load Responsibility, Regulating Margin, Most Severe Single Contingency (MSSC), Supplemental Reserves, Operating Reserves, and Spinning Reserves are used in this Agreement, the WECC definitions of those terms apply.

2. <u>Purpose of Agreement</u>

BC Hydro and the Transmission Customer agree that the provisions of this Agreement and the Network Service Agreement for Network Integration Service govern BC Hydro's provision of Transmission Service to the Network Customer. This Agreement requires the Parties to:

- 2.1 Operate and maintain equipment necessary for incorporating the Transmission Customer within BC Hydro's Transmission System (including, but not limited to, remote terminal units, metering, communications equipment and relaying equipment);
- 2.2 Transfer data (including but not limited to, heat rates, fuel costs, and operational characteristics of Network Resources, generation schedules for Network Resources, interchange schedules, unit outputs for redispatch required under Part III of the Tariff, voltage schedules, flows of real and reactive power, loss factors, switch status, breaker status, MW/MVAR flow on lines, bus voltages, transformer taps and other SCADA and real time data) between their respective control centers;
- 2.3 Use software programs required for data links and constraint dispatching;
- 2.4 Exchange data on forecasted load and resources necessary for planning and operation; and

ACCEPTED:_____

2.5 Address any other technical and operational considerations required for implementation of Part III of the Tariff, including scheduling protocol.

3. Integration and Control Area Requirements

The Transmission Customer shall:

- Provide all Ancillary Services itself, including those necessary to operate as a control area under applicable guidelines of the North American-Electric Reliability Council (NERC), the Western Electricity Coordinating Council (WECC) and the Northwest Power Pool (NWPP); or
- (b) Satisfy its control area requirements, including all Ancillary Services, by contracting with BC Hydro; or
- (c) Satisfy its control area requirements, including all Ancillary Services, by contracting with another entity which can satisfy those requirements in a manner that is consistent with Good Utility Practice and satisfies NERC, WECC and NWPP standards.

The Transmission Customer shall plan, construct, operate and maintain its facilities and system in accordance with Good Utility Practice, which shall include, but not be limited to, all applicable reliability standards as approved by the BCUC, all applicable guidelines of NERC, WECC and NWPP, as they may be modified from time to time, and any generally accepted practices in the region. This Agreement will be revised as necessary to incorporate changes to BC Hydro Control Area requirements.

4. <u>Network Operating Committee</u>

- 4.1 Membership The Network Operating Committee shall be composed of representatives from the Transmission Customers taking service under Part III of the Tariff and BC Hydro, or their Designated Agents.
- 4.2 Responsibilities The Network Operating Committee shall:
 - Adopt rules and procedures consistent with this Agreement and the Tariff governing operating and technical requirements necessary for implementation of the Tariff;
 - (b) Review Network Resources and Network Loads on an annual basis in order to assess the adequacy of the transmission network; and
 - (c) Obtain from BC Hydro its operating policies, procedures and guidelines for network interconnection and operation.

ACCEPTED:_____

5. <u>Regulation and Frequency Response</u>

The Transmission Customer shall meet its proportional share of Regulating Margin by either:

- (a) Purchasing Regulation and Frequency Response Services from BC Hydro pursuant to its Rate Schedule 05; or
- (b) Contributing or arranging to have a third party contribute generating resources to meet the Regulating Margin requirement for the current year as follows:

Regulating Margin Requirement = Transmission Customer's maximum Network Load in the previous year x 2%

A Transmission Customer that meets its proportional share of Regulating Margin by alternative (b) above shall also meet the requirements of Section 16 below.

- 6. <u>Operating Reserve</u>
- 6.1 The Transmission Customer shall meet its share of the Control Area's Operating Reserve requirements by either:
 - (a) Purchasing Operating Reserve Services from BC Hydro pursuant to Rate Schedules 07 and 08 or
 - (b) Providing or arranging to have a third party provide the Operating Reserve requirement.

A Transmission Customer that meets its share of the Control Area's Operating Reserve requirement by alternative (b) above shall also meet the requirements of Section 16 below. The Operating Reserve requirement is as specified by the applicable reliability standards as approved by the BCUC, and implemented by BC Hydro. In as much as BC Hydro is obligated to meet WECC's and NWPP's requirements, as they may be modified from time to time including the applicable BCUC approved Mandatory Reliability Standards, the Transmission Customer recognizes and agrees that its proportional share of the Operating Reserve requirement may change to reflect WECC and NWPP modifications.

6.2 In order to facilitate the use of Operating Reserve, the Transmission Customer that meets its share of the Control Area's Operating Reserve requirement by alternative 6.1(b) shall have available unloaded reserved firm transmission capacity at least equal to that Operating Reserve amount. Such transmission may be loaded with interruptible energy so that, upon interruption of the energy, Transmission Service is available to replace such energy from the Operating Reserve.

ACCEPTED:_____

ORDER NO._____

COMMISSION SECRETARY

In addition, the Transmission Customer shall restore Operating Reserve to the required level as promptly as practicable, but shall not exceed sixty (60) minutes from the time of the event necessitating the loading of the reserve.

7. Redispatch To Manage Transmission System Constraints

If BC Hydro determines that the redispatch of Network Resources (including reductions in purchases from outside of BC Hydro Control Area) to relieve an existing or potential Transmission System constraint is the most effective way to ensure the reliable operation of the Transmission System, BC Hydro will redispatch its and the Transmission Customer's Network Resources on a least-cost basis, without regard to the ownership of such resources. BC Hydro will apprise the Transmission Customer of its redispatch practices and procedures, as they may be modified from time to time.

The Transmission Customer will submit verifiable incremental and decremental cost data for its Network Resources, which estimates the cost to the Transmission Customer of changing the generation output of each of its Network Resources, to BC Hydro when submitting its preschedules. These costs will be used, along with similar data for any other Network Customers' resources, as the basis for least-cost redispatch for the next day's operations (or the next day's operations if the preschedule is submitted on a Friday or the day before a holiday). BC Hydro will keep these data confidential. If the Transmission Customer experiences changes to its costs during the following day, the Transmission Customer must submit those changes to BC Hydro's control centre. BC Hydro will implement least-cost redispatch consistent with its existing contractual obligations and its current practices and procedures for its own resources. The Transmission Customer is obligated to respond immediately to requests for redispatch from BC Hydro's control centre. The Transmission Customer may audit particular redispatch events at its own expense, during normal business hours following reasonable notice to BC Hydro. If such audit shows that Transmission Customer's resources have been redispatched in preference to lower cost alternatives for other than emergency reasons, the cost of the audit shall be borne by BC Hydro. Either the Transmission Customer or BC Hydro may request an audit of the other Party's cost data by an independent agent at the requester's cost.

8. <u>Curtailability</u>

BC Hydro reserves the right to curtail all or part of Transmission Service due to conditions which physically cause a reduction in the transmission path(s). Such conditions include, but are not limited to, forced outages of one or more elements of the transmission path, nomogram restrictions, and unscheduled loop flows.

Whenever possible and consistent with Good Utility Practice, loads will be curtailed based on load ratio share. When such conditions no longer restrict the capability of the transmission path, Network Integration Transmission Service will be resumed.

ACCEPTED:_____

9. <u>Maintenance of Facilities</u>

- 9.1 The Network Operating Committee shall establish procedures to coordinate the maintenance schedules of the generating resources and transmission and substation facilities, to the greatest extent practical, to ensure sufficient transmission resources are available to maintain system reliability and reliability of service. By 1 December of each year, the Transmission Customer shall provide to BC Hydro the maintenance schedules and planned outages of each Network Resource for the next year and update the information at least thirty (30) days in advance of the date specified for the forecasted maintenance outage. Such information shall include, but not be limited to, the expected time the unit will be separated from the system and the time at which the unit is available for:
 - (a) Synchronizing parallel operation;
 - (b) Loading; and
 - (c) If applicable, to be put on automatic generation control.
- 9.2 The Transmission Customer shall obtain:
 - (a) Concurrence from BC Hydro, at least seventy-two (72) hours before beginning any scheduled maintenance of its facilities; and
 - (b) Clearance from BC Hydro when the Transmission Customer is ready to begin maintenance on a Network Resource, transmission line, or substation (operated at 60 kilovolt and above).

The Transmission Customer shall immediately notify BC Hydro at the time when unscheduled or forced outages end. The Transmission Customer shall notify and coordinate with BC Hydro prior to reparalleling the Network Resource, transmission line, or substation.

- 9.3 Maintenance schedules will be posted on an electronic bulletin board.
- 10. Load Shedding
- 10.1 The Parties shall implement load shedding programs to maintain the reliability and integrity of the Control Area, as provided in Section 29 of the Tariff. Load shedding shall include:
 - (a) Automatic load shedding;
 - (b) Manual load shedding; and
 - (c) Rotating interruption of customer load.

ACCEPTED:_____

BC Hydro will order load shedding to maintain the relative sizes of load served, unless otherwise required by circumstances beyond the control of BC Hydro or the Transmission Customer. Automatic load shedding devices will operate without notice. When manual load shedding or rotating interruptions are necessary, BC Hydro shall notify the Transmission Customer's dispatchers or schedulers of the required action and the Transmission Customer shall comply immediately.

- 10.2 The Transmission Customer shall, at its own expense, provide, operate and maintain in service high-speed digital under frequency load-shedding equipment. The Transmission Customer's equipment shall be:
 - (a) Compatible and coordinated with the Transmission System load shedding equipment; and
 - (b) Set for the amount of load to be shed with frequency trips and tripping time consistent with BC Hydro requirements.

In the event BC Hydro modifies the load-shedding system, the Transmission Customer shall, at its expense, make changes to the equipment and setting of such equipment, as required. The Transmission Customer shall test and inspect the load-shedding equipment within 90 days of taking Long Term Service under the Tariff and at least once each year thereafter and provide a written report to BC Hydro. BC Hydro may request a test of the load-shedding equipment with reasonable notice.

- 11. <u>Recognition of Power and Energy Flow</u>
- 11.1 The Parties recognize that:
 - (a) BC Hydro's Transmission System is, and will be, directly or indirectly interconnected with Transmission Systems owned or operated by others;
 - (b) The flow of power and energy between such systems will be controlled by the physical and electrical characteristics of the facilities involved and the manner in which they are operated; and
 - (c) Part of the power and energy being delivered under this Agreement may flow through such other systems rather than through the facilities of BC Hydro.

The Network Operating Committee shall, from time to time as necessary, determine methods and take reasonably appropriate action to assure maximum delivery of power and energy at the points of receipt and delivery and at such additional or alternate points of receipt and delivery as may be established by the Parties.

ACCEPTED:_____

ORDER NO._____

COMMISSION SECRETARY

- 11.2 Each Party will at all times cooperate with other interconnected systems in establishing arrangements or mitigation measures to minimize operational impacts on each other's systems.
- 11.3 Each Party recognizes that a Party's proposed new interconnection or modification of an existing interconnection between that Party's system and the system of a third party, may cause adverse anticipated effects on the system of the other Party. The Party making such interconnection or modification shall minimize, or otherwise compensate for, adverse operational effects to the other Party's system.

12. <u>Service Conditions</u>

The Parties recognize that operating and technical problems may arise in the control of the frequency and in the flow of real and reactive power over the interconnected Transmission Systems. The Network Operating Committee may adopt operating rules and procedures as necessary to assure that, as completely as practical, the delivery and receipt of real and reactive power and energy hereunder shall be accomplished in a manner that causes the least interference with such interconnected systems.

A Transmission Customer interconnecting with BC Hydro's Transmission System is obligated to follow the same practices and procedures for interconnection and operation that BC Hydro uses for other Network Customer load and resources.

Where the Transmission Customer purchases Ancillary Services from third parties, the Transmission Customer shall have the responsibility to secure contractual arrangements with such third parties that are consistent with the Tariff, this Agreement and any applicable rules and procedures of the Network Operating Committee.

13. Data, Information and Reports

- 13.1 The Transmission Customer shall, upon request, provide BC Hydro with such reports and information concerning its network operation as are reasonably necessary to enable BC Hydro to operate its Transmission System adequately.
- 13.2 Scheduling hourly transactions from outside of BC Hydro Control Area, in whole megawatts, are prescheduled by voice or fax or electronically. Schedules can be changed no later than 20 minutes (or a reasonable time that is generally accepted

in the region and is consistently adhered to by the Transmission Provider) before the schedules go into effect.

The Transmission Customer shall notify BC Hydro of intended imports into the Control Area for the next normal business day(s) by voice or electronically no later than 10:00 a.m. (or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider) on the day prior. No later than

ACCEPTED:_____

2:00 p.m. (or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider) of each normal business day, the Transmission Customer shall finalize import preschedules by voice or fax or electronically. Such preschedules and forecasts shall include, as applicable:

- (a) Each import into or export out of the Control Area;
- (b) Each power purchase and sale from within the Control Area;
- (c) Losses;
- (d) Generation from each Network Resource;
- (e) Network Load at each point designated in Section 4 of the Specifications For Network Integration Transmission Service attached to the Service Agreement;
- (f) Regulation and Frequency Response requirement;
- (g) Spinning or Supplemental Reserve from each Network Resource;
- (h) Spinning or Supplemental Reserve purchase from BC Hydro or each third party;
- (i) The Transmission Customer's MSSC;
- (j) Available capacity from each Network Resource;
- (k) Transmission Service associated with each preschedule and forecast;
- (I) Incremental and decremental cost data for Network Resources; and
- (m) Other information, as required by BC Hydro.
- 13.3 Annual Forecast By 15 September of each year, the Transmission Customer shall update its load and resource forecast by providing BC Hydro with a non-binding forecast in a format specified by BC Hydro.
- 13.4 Monthly Forecast Five (5) days before the end of the month, the Transmission Customer shall update the forecast for the following month specifying purchase, generation, maximum demand, total monthly energy and Operating Reserve Services from BC Hydro or a third party.
- 13.5 The Transmission Customer shall telemeter to BC Hydro information including but not limited to watts, vars, generator status, generator breaker status, generator terminal voltage and high side transformer voltage, unless otherwise agreed.

ACCEPTED:

13.6 The Transmission Customer shall provide generating resource characteristics to BC Hydro as necessary to implement redispatch and constraint and reserve management.

14. Metering

- 14.1 Unless otherwise agreed the Transmission Customer shall be responsible for the cost of installing and maintaining revenue meters and communication equipment compatible with BC Hydro's meter reading system and facility standards. Revenue quality metering equipment and meters shall be installed at the high voltage bus at each point of interconnection between the Transmission Customer's facility and BC Hydro's system. The meters shall measure and record both real power (watts) and reactive power (vars) flow and line losses, if applicable, in both directions. Meters not installed at the high voltage bus or at the point of interconnection shall be adjusted for losses.
- 14.2 BC Hydro shall read or retrieve meter data on the first work day after the end of each billing cycle or such other date as may be required to carry out the provision of this Tariff. BC Hydro shall process the meter data and determine energy imbalances, accounting and billing using such meter data.
- 14.3 The meter owner shall test revenue meters for power deliveries made at 60kV and above at least once a year and within 10 business days after a request by the other Party. The other Party will be afforded the opportunity to be present during the meter test. For meters owned by BC Hydro, the Transmission Customer may request a meter test by calling the designated customer account representative of BC Hydro and shall pay for the cost of the requested test if the meter has been tested within the previous 12 months. The Parties present at the meter test shall estimate the amount of capacity and energy created during the meter test. The meter owner shall immediately repair, adjust or replace any meter or associated equipment found to be defective or inaccurate. An inaccurate meter is a meter that exceeds 2% of the calibrated standards.
- 14.4 BC Hydro shall adjust the recorded data to compensate for the effect of an inaccurate meter. Such adjustment shall be made for a maximum period of 30 days prior to the date of the test or to the period during which such inaccuracy may be determined to have existed, whichever period is shorter. No adjustment prior to the beginning of the next preceding month shall be made except by agreement of the Parties. Should any meter fail to register, BC Hydro shall estimate, from the best information available, the demand created, energy flow and var flows during the period of the failure. BC Hydro shall, as soon as possible, correct the Transmission Customer's bills affected by the inaccurate meter. That correction, when made, shall constitute full adjustment of any claim arising out of the inaccurate meter for the period of the correction.

15. <u>Communications</u>

15.1 The Transmission Customer shall, at its own expense, install and maintain a voice communication link for scheduling.

ACCEPTED:_____

15.2 A Transmission Customer contributing to Regulation and Frequency Response requirement and Operating Reserve requirements or securing the requirements from a third party shall, at its own expense, install and maintain telemetry equipment communicating between the generating resource and BC Hydro.

16. Requirements to Contribute to System Regulation and Operating Reserve

The Transmission Customer who is not purchasing Regulation and Frequency Response and Operating Reserve Services from BC Hydro shall operate its generating resources in a manner similar to that of BC Hydro including following voltage schedules, free governor response, meeting power factor requirements at the point of interconnection with BC Hydro's system, and such other criteria as may be developed by BC Hydro or the Network Operating Committee. The Transmission Customer shall pay the cost of modification of BC Hydro's computer hardware and software to accommodate the Transmission Customer's contribution to Regulation and Frequency Response requirement and Operating Reserve. Any resources used by the Transmission Customer to meet its proportional share, whether the Transmission Customer's Network Resources or a third party's generating resources, shall meet the same requirements as BC Hydro's generating Reserve requirements, including but not limited to, automatic generation control capability, ramp rate, and governor response, and are subjected to random testing, and if applicable, a monthly start-up test.

17. Assignment

This Agreement shall inure to the benefit of and be binding upon the Parties hereto and their respective successors and assigns, but shall not be assigned by either Party, except to successors to all or substantially all of the electric properties and assets of such Party, without the written consent of the other Party.

18. <u>Notice</u>

Any notice or request made to or by either Party regarding this Agreement shall be made to the representative of the other Party as indicated in the Network Service Agreement. This agreement is attached thereto as Appendix C.

ACCEPTED:_____

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective authorized officials.

BC HYDRO

(TRANSMISSION CUSTOMER)

Ву:	Ву:	
Title:	Title:	
Date:	Date:	

ACCEPTED:_____

ATTACHMENT H

Annual Transmission Revenue Requirement for Network Integration Transmission Service

- 1. The Annual Transmission Revenue Requirement for purposes of the Network Integration Transmission Service shall be \$513,900,000.
- 2. The amount in (1) shall be effective until amended by the Transmission Provider or modified by the Commission.

ACCEPTED:_____

ATTACHMENT I

Index of Network Integration Transmission Service Customers

Customer

Date of Service Agreement

ACCEPTED:_____

ATTACHMENT J

Procedures for Addressing Parallel Flows

Reserved

ACCEPTED:_____

ATTACHMENT K

Transmission Planning Process

1. Description And Purpose Of The Planning Process

This Attachment describes the Transmission Provider's biennial process for planning capital projects for the purpose of expanding the capability of the Transmission System to meet potential requirements and opportunities over a 10-year planning horizon. The Transmission Provider's Planning Process described in this Attachment begins with an Initiation Phase providing for the exchange of information between Stakeholders and the Transmission Provider. Over the course of the Planning Process, Stakeholders may make comments on draft plans, submit requests for Economic Planning Studies and participate in Consultation Meetings and Technical Review Groups. The Planning Process ends with the formation of a Transmission Plan, which is a collection of projects in various stages of development, from an initial study of the project to implementation, that are designed to meet the potential needs and requirements identified in the Planning Process.

After the completion of the Planning Process as described herein, the Transmission Provider in its sole discretion will select the projects in the Transmission Plan for inclusion in its Growth Capital Portfolio.

This Attachment K does not place obligations on the Transmission Provider to construct upgrades or facilities identified in a study or its Transmission Plan. This Attachment K supports, but does not replace the Transmission Provider's construction-related obligations in other portions of the Tariff. Point-to-Point Transmission Service, Network Integration Transmission Service and Interconnection Service requests are governed by and studied in accordance with other portions of the Tariff. Where possible, these study processes will be incorporated into the Planning Process in this Attachment K.

ACCEPTED:

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2. Definitions

Consultation Meeting means a meeting to provide information and to solicit input from Stakeholders on the Transmission Provider's planning of the Transmission System. Consultation Meetings are open to all Stakeholders. The Transmission Provider will announce Consultation Meetings via e-mail to Stakeholders and will post the announcement on the Transmission Provider's public website.

Commission means the British Columbia Utilities Commission

Economic Planning Studies means studies that evaluate potential upgrades or other investments that could reduce congestion or integrate new resources and loads on an aggregated or regional basis. Stakeholders may request Economic Planning Studies in the Initiation Phase of the Planning Process. The Transmission Provider may limit the number of Economic Planning Studies it undertakes in each planning cycle, depending on available resources. Economic Planning Study Requests that are not performed may be carried forward to the next planning cycle for consideration. The conducting of an Economic Planning Study in no way imposes any obligation on the Transmission Provider to fund, assign cost responsibility, or otherwise determine whether any economic project should be implemented.

First Nations Engagement Process means a process to consider the specific interests and needs of affected First Nations.

Initiation Phase means the stage of the Planning Process described in Section 3.

Planning Manual means the document produced and updated from time to time by the Transmission Provider that describes the basic methodology, criteria and assumptions used by the Transmission Provider in the Planning Process.

Planning Process means the process of planning Projects described in this Attachment for the purpose of expanding the capability of the Transmission System in order to meet potential requirements and opportunities. The Planning Process includes the Initiation

ACCEPTED:

Phase, Study Plan Development Phase, Study Phase, and Transmission Plan Development Phase.

Point of Contact means the contact at the Transmission Provider designated by the Transmission Provider to whom all information and inquiries related to the Planning Process should be directed. Point of Contact information shall be posted on the Transmission Provider's public website.

Project means a capital project to expand the capability of the Transmission System to meet potential requirements and opportunities.

Stakeholder means any person affected by the Planning Process, such as a transmission customer, interconnection customer, or neighbouring transmission provider as the case may be.

Study Phase means the phase of the Transmission Provider's Planning Process described in Section 5.

Study Plan Development Phase means the stage of the Planning Process described in Section 4.

Technical Review Group means a group of Stakeholders formed to provide the Transmission Provider with input on the assessment of planning alternatives that meet in accordance with the Terms of Reference for Technical Review Groups found in Appendix 1 to this Attachment.

Transmission Plan means a collection of Projects that meets the needs identified in the study plan developed pursuant to Section 4.

Transmission Plan Development Phase means the phase of the Transmission Provider's Planning Process described in Section 6.

WECC means the Western Electricity Coordinating Council.

ACCEPTED:

3. Initiation Phase

3.1 Initiation of the Planning Process

The Transmission Provider will announce the initiation of the Planning Process via electronic mail to Stakeholders and on its public website. The announcement will include a description of the planning process, including milestones and an anticipated schedule, instructions on how to access the Transmission Provider's planning information and instructions for providing planning information and requests for Economic Planning Studies to the Transmission Provider. The announcement will also indicate the number of Economic Planning Studies that may be performed within the Planning Process.

3.2 Stakeholder Mailing List

The Transmission Provider will maintain a Stakeholder mailing list including customers, neighbouring transmission providers, the Commission and affected parties that have expressed interest in the Transmission Provider's consultation activities. Stakeholders may request to be added to the list through the Transmission Provider's Point of Contact.

3.3 Submission of Customer Planning Information

The Transmission Provider will establish a business practice in consultation with customers regarding the format and procedure for the submission of planning information to the Transmission Provider. The business practice will address how and when the following will occur:

- (a) Stakeholders may submit written requests for Economic Planning Studies.
- (b) Network Customers shall provide updates to their 10-year forecasts on Network Loads and Network Resources, Contingency Resource Plans and the other information contemplated by Section 31.6 and Attachment P of the Tariff.

ACCEPTED:

- (c) Transmission Customers receiving Long-Term Firm Point-to-Point Transmission service shall provide a 10-year projection of the need for and usage of Long-Term Firm Point-to-Point Transmission service on the Transmission System including receipt and delivery points.
- (d) Interconnection Customers shall provide a 10-year forecast with respect to any planned additions or upgrades, including their status and expected in-service date, planned retirements and environmental restrictions.
- (e) Any Stakeholder may also provide
 - information related to non-wires solutions to offset or defer transmission investments, including targeted demand-side management and energy procurement;
 - ii. any information on potential requirements or opportunities that the Stakeholder believes should be considered in the Planning Process.

3.4 Use of Customer Planning Information

Subject to confidentiality and security restrictions, any information may be used by the Transmission Provider without restriction in its planning activities under this Attachment K and in the Transmission Provider's other planning activities or studies, such as studies in response to requests for transmission service or interconnection. However, if the Transmission Provider reasonably determines that any information provided under this Attachment K is inappropriate or unreasonable for a particular purpose, the Transmission Provider may not use it for such purpose.

The good faith projections of anticipated point-to-point uses of the transmission system or forecasted generation additions or upgrades provided by customers are additional data for consideration by the Transmission Provider in its planning activities. The Transmission Provider may consider such projections, for example, to support likely

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scenarios for new investments. The projections, however, will not be treated as a substitute for actual point-to-point reservations or interconnection requests.

3.5 Confidentiality

If a Stakeholder wishes to submit confidential information, the Stakeholder may provide the information in accordance with section 9, provided that the Transmission Provider may use the information for planning purposes and present the information to the public on an aggregated basis or by any other method which the Transmission Provider reasonably believes will not compromise the confidentiality requirements of the Stakeholder.

3.6 Availability of Planning Information

Subject to the need to protect confidential information or security sensitive information, the Transmission Provider will post on an ongoing basis the following on its Planning Web Page:

- (a) the Transmission Provider's Planning Manual;
- (b) the data used by the Transmission Provider in its planning and study work, including base case data,
- (c) potential requirements and opportunities;
- (c) the Transmission Provider's latest Capital Plan, including current reports regarding the state of the Transmission System;
- (d) the status of Network Upgrades for Projects in progress;
- Transmission Service and Interconnection Service requests pursuant to the Tariff and any studies and agreements related to such requests;
- (f) information on regional planning activities, as described in Section 11;

ACCEPTED:

- (g) information received from customers throughout the course of the Planning Process; and,
- (h) planning information developed in the course of the Planning Process, including draft and final study and transmission plans, minutes of meetings and customer comments.

Subject to the need to protect confidential information or security sensitive information, the Transmission Provider will also post the following information as it becomes available:

- (a) information regarding existing transmission constraints;
- (b) generation redispatch options that can relieve transmission constraints in the Transmission Provider's Balancing Authority Area; and,
- (c) other information the Transmission Provider considers relevant to the Planning Process, including information received from policy advisory groups, regional stakeholder meetings, regional planning groups, the First Nation's Engagement Process, and local and regional studies.

Planning information that is confidential or security sensitive will be described on the Transmission Provider's public website and made available to participating Stakeholders in accordance with Section 9.

4 Study Plan Development Phase

4.1 Draft Study Plan

Based on the planning information submitted to the Transmission Provider or made available by the Transmission Provider in accordance with Section 3, the Transmission Provider will prepare and post on the Planning Web Page a draft study plan. The Draft Study Plan will include:

ACCEPTED:

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- (a) potential requirements and opportunities;
- (b) study data and planning assumptions;
- (c) a list of approved projects in progress and their status;
- (d) a list of proposed studies for meeting the potential requirements and opportunities, including list of studies required for meeting interconnection and transmission service requests, including a description of the scope and deliverables for each study;
- (e) a review of the possible opportunities for combining the studies described in 4.1(d);
- (f) a review of potential non-wires solutions to the potential requirements and opportunities; and,
- (g) if there are more Economic Planning Study requests than the Transmission Provider is able to undertake, suggested criteria for selecting Economic Planning Studies to be performed, such as whether the requested Economic Planning Studies: (a) address significant and recurring congestion; (b) integrate new generation resources or load or both on an aggregated or regional basis; or (c) reduce the overall cost of transmission.

4.2 Consultation Meeting

The Transmission Provider will schedule a Consultation Meeting after the posting of the draft study plan. In the Consultation Meeting, the Transmission Provider will

- (a) provide a high level review of the Transmission Provider's study methodology, data and planning assumptions,
- (b) review the proposed list of studies;

ACCEPTED:

- (c) discuss and determine which, if any, requested Economic Planning Studies can be combined;
- (d) if necessary, determine with Stakeholders which Economic Planning Studies will be undertaken, including determining selection criteria, the weight to be given to the criteria and the ranking of studies according the criteria;
- (e) review the Transmission Provider's coordination with WECC and any bilateral or multilateral initiatives in which the Transmission Provider is participating with neighbouring transmission providers, utilities or sub-regional planning groups, including any opportunities for Stakeholders to be involved in such activities;
- (f) establish Technical Review Groups for specific projects based on stakeholder interest and schedule initial meetings to review the Terms of Reference (see Appendix A) and to develop a meeting schedule; and,
- (g) establish a comment period for Stakeholders to provide written comments.

4.3 **Posting of Minutes and Materials**

As soon as practicable, the Transmission Provider will post on the its public website minutes of the Consultation Meeting along with any materials distributed at the Consultation Meeting, subject to the need to protect confidential or security-sensitive information.

4.4 Written Comments

Stakeholders may provide written comments on the draft study plan to the Point of Contact within the comment period. Stakeholder comments on the draft study plan will be posted on the Planning Web Page.

ACCEPTED:

4.5 Final Study Plan

Taking into account the written comments of Stakeholders, the Transmission Provider will develop and post on the its public website a final study plan. The final study plan will include:

- (a) a written description of potential requirements and opportunities;
- (b) study data and planning assumptions;
- a list of studies designed to meet the potential requirements and opportunities, including a description of the scope and deliverables for each study;
- (d) a list of the Economic Planning Studies selected to be performed by the Transmission Provider;
- (d) a schedule for the completion of each identified task;
- (e) a schedule of Technical Review Group meetings;
- (f) a list of studies that involve multiple Balancing Authority Areas; and,
- (g) for studies that involve multiple Balancing Authority Areas, a description of the Transmission Provider's coordination with the relevant regional planning groups and periodic progress updates to affected Transmission Customers.

4.6 Amendments to the Study Plan

During the Study Plan Development Phase or Study Phase, the Transmission Provider may propose amendments to the study plan by notifying Stakeholders and posting on the Transmission Provider's public website a notice of the proposed amendment along with an explanation of the reason for the amendment and specify a period for Stakeholders' comments. Stakeholders may provide written comments on the draft study plan to the Point of Contact. The Transmission Provider will take into account written

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comments before formally amending the study plan. The amended study plan will be posted on the Transmission Provider's public website along with the written comments.

5. Study Phase

5.1 Performance of Studies

- (a) Following the posting of the final study plan, the Transmission Provider will perform the studies identified in the study plan in order to develop a preliminary set of Projects that will meet the potential requirements or opportunities identified.
- (b) Following the posting of the final study plan, the Transmission Provider conduct the selected Economic Planning Studies, except for those of regional scope.
- (c) In accordance with WECC's Transmission Planning Protocol, the Transmission Provider will submit Economic Planning Studies to WECC during its study request window. Economic Planning Studies of regional scope will be prioritized and completed as part of a Western Interconnection synchronized study cycle in accordance with the Transmission Planning Protocol, which is open to interested parties. Economic Planning Studies of regional scope which are not given high priority in the process will be deferred, although the requesting party may request that the study be completed at its own cost. The Transmission Provider will conduct and participate in regional studies in accordance with the Transmission Expansion Protocol. Information on the Transmission Planning Protocol will be provided to Stakeholders in accordance with Section 11.
- (d) The Transmission Provider may request proponents of selected Economic Planning Studies and other Stakeholders to supply information within their possession or control necessary for the Transmission Provider to the conduct the selected Economic Planning Studies. Such information may include cost information for transmission and generation facilities. The information provided will be considered not to be confidential unless it is claimed as such. Confidential

information may be provided under protection of a confidentiality agreement in accordance with Section 9 of this Attachment. The Transmission Provider will have no obligation to proceed with an Economic Planning Study if the Transmission Provider does not receive the information reasonably necessary to conduct the Economic Planning Study.

(e) In conducting studies, the Transmission Provider will consider customer demand and generation based non-wires solutions on a comparable basis to transmission alternatives. the Transmission Provider will develop planning criteria, which will be included in the Transmission Provider's Planning Manual, describing how transmission and non-wires solutions will be considered on a comparable basis in the study process.

5.2 Technical Review Groups

The Transmission Provider will engage the Technical Review Groups formed in the Study Plan Development Phase in accordance with their Terms of Reference and schedule.

5.3 Preliminary Set of Projects

After the completion of the studies pursuant to Subsection 5.1, the Transmission Provider will post the following on the its public website:

- (a) study results; and,
- (b) a preliminary set of Projects.

5.4 Consultation Meeting

The Transmission Provider will schedule a Consultation Meeting after the preliminary set of Projects is posted. At the Consultation Meeting the Transmission Provider will:

(a) review the preliminary set of Projects for inclusion in the Transmission Plan;

ACCEPTED:

- (b) review the results of studies that support the development of the preliminary set of Projects;
- (c) review the results of Economic Planning Studies; and,
- (d) establish a comment period for Stakeholders to provide written comments.

5.5 **Posting of Minutes and Materials**

As soon as practicable, the Transmission Provider will post on the its public website minutes of the Consultation Meeting along with any materials distributed at the Consultation Meeting, subject to the need to protect confidentiality or security sensitive information.

5.6 Written Comments

Stakeholders may submit written comments within the comment period to the Point of Contact. The Transmission Provider will post on the its public website comments received from Stakeholders.

6. Transmission Plan Development Phase

6.1 Draft Transmission Plan

Taking into account the written comments of Stakeholders, the Transmission Provider will develop and post on the its public website, a draft Transmission Plan. The draft Transmission Plan which describes the Transmission Provider's growth capital portfolio with a 10 year planning horizon will include the following:

- (a) Projects that meet the need identified in the study plan;
- (b) Projects that are in progress;

ACCEPTED:

- Projects that meet the requirements of transmission and interconnection service requests;
- (d) Projects that have been developed sufficiently for the Transmission Provider to seek approval from its Board of Directors; and,
- (e) Projects for which no approval will be sought in the current planning cycle.

The Transmission Provider will also specify a comment period.

6.2 Written Comments

Stakeholders may submit written comments on the draft Transmission Plan to the Point of Contact within the comment period. The Transmission Provider will post comments received from Stakeholders on the Transmission Provider's public website.

6.3 Final Transmission Plan

Taking the comments from Stakeholders into consideration as necessary, the Transmission Provider will develop a final Transmission Plan.

7. Inquiries

At any time, Stakeholders may direct inquiries related to the Planning Process to the Point of Contact, who will be identified on the Transmission Provider's public website.

8. Dispute Resolution Process

Stakeholders are encouraged to bring to the attention of the Point of Contact any issues that they may have arising out of the Planning Process. Stakeholders may also file a complaint with the Commission with respect to any such issue.

ACCEPTED:

9. Confidentiality

In the event that a Stakeholder or the Transmission Provider claims that planning-related information is confidential, any party seeking access to such information must agree to adhere to the terms of a confidentiality agreement. The form of confidentiality agreement will be initially developed by the Transmission Provider and will be posted on its Planning Website. Stakeholders will have an opportunity to submit comments on the form of confidentiality agreement. Confidential information shall be disclosed only to those participants in the planning process that require such information and that execute the confidentiality agreement. The Transmission Provider will develop procedures for the submission and requesting of confidential information and make such procedures available for comment on its public website.

10. Standards of Conduct

The Transmission Provider's conduct under this Attachment is subject to the Transmission Provider's Standards of Conduct.

11. Regional Planning

The Transmission Provider will coordinate with interconnected systems through its participation in WECC and through direct engagement of neighbouring systems. As a system in the corner of the WECC interconnected system, the Transmission Provider has not found it necessary to join any subregional planning groups, although the Transmission Provider will coordinate with such subregional planning groups through WECC and as otherwise may be necessary.

11.1 WECC

As a member of WECC, the Transmission Provider will follow and participate in WECC's policies and procedures for Regional Planning Project Review, Project Rating Review, and Progress Reports. The Transmission Provider will also participate in the Transmission Planning Protocol of WECC's Transmission Expansion Planning Policy

ACCEPTED:

Committee. The Transmission Provider will post current links to WECC's procedures and guidelines on its public website as well as information detailing the Transmission Provider's participation in WECC's regional planning processes.

11.2 Other Regional Planning Activities

In addition to its participation in WECC processes, the Transmission Provider may engage neighbouring systems or sub-regional planning groups for the purpose of regional transmission planning and investment. As part of these regional planning activities, the Transmission Provider will seek opportunities to improve the overall efficiency and economic savings from increased inter-regional cooperation and integration. Once opportunities are identified, the Transmission Provider will seek to facilitate the required studies and implementation through working groups consisting of representatives from the Transmission Provider and other participating entities. The Transmission Provider will post on its public website information on such activities including notice of meetings, relevant materials and information on how interested parties may participate.

11.3 Customer Participation

The Transmission Provider will provide on its public website information on how Stakeholders may participate in any of the Transmission Provider's regional planning activities, which may involve attending meetings, conference calls or submitting comments on particular projects. Stakeholders who are interested in any regional planning activities are encouraged to contact the Transmission Provider's Point of Contact so that the Transmission Provider may facilitate such participation. As described in Section 4, the Transmission Provider will also include a description of its regional planning activities in the Draft Study Plan, which customers may comment on and discuss with the Transmission Provider at the Consultation Meeting held for that purpose.

ACCEPTED:

12. Cost Allocation

- 12.1 The Transmission Provider will recover the costs of projects required for meeting service requests and system improvements in accordance with the provisions in the Transmission Provider's Tariff.
- 12.2 The Transmission Provider is not obliged to expand the system based on the results of Economic Planning Studies. Where the Transmission Provider decides to construct facilities based on the results of one or more Economic Planning Studies, it will do so in accordance with a transmission expansion or congestion policy developed by the Transmission Provider, subject to Commission approval. In these cases, the Transmission Provider will apply the cost allocation principles of the applicable transmission expansion or congestion policy under which the project is developed, subject to Commission approval.

13. No Participant Funding

Stakeholders may participate in the Planning Process at their own cost.

Appendix 1 to Attachment K

Terms of Reference for Technical Review Groups

Technical Review Groups formed in accordance with Attachment K are to be conducted in accordance with these Terms of Reference.

1. Definitions

- (a) "Interested Person" means any transmission or interconnection customer or any other person directly impacted by the subject matter of a particular TRG and wishes to participate in the particular TRG;
- (b) "Tariff" means the Transmission Provider's Open Access Transmission Tariff as may be amended from time to time by the British Columbia Utilities Commission; and
- (c.) "TRG" means a Technical Review Group formed pursuant to Attachment K of the Tariff.

2. Purpose

The TRG will provide an open, transparent forum whereby Interested Persons can review and provide feedback to the Transmission Provider in respect of planning alternatives for a transmission system requirement or opportunity identified by the Transmission Provider, which, in turn, provides a forum for the Transmission Provider to better understand the specific concerns of Interested Persons regarding planning alternatives to meet an identified transmission system requirement or opportunity.

3. Establishment

A TRG shall be established by the Transmission Provider in accordance with Attachment K of the Tariff. The TRG shall consist of at least one representative from the

ACCEPTED:

Transmission Provider, who shall be the facilitator, and representatives of at least two different Interested Persons.

Participation in a TRG is entirely voluntary and done so at each Interested Person's own cost and expense.

4. Role of TRG

The TRG may, with the benefit of results of any study determined to be relevant by the Transmission Provider, comment and provide feedback on planning alternatives to meet a transmission system requirement or opportunity identified by the Transmission Provider.

The TRG shall be advisory only and shall have no formal voting protocol.

5. Meetings

5.1 General

All meetings of a TRG will be open to all Interested Persons, subject to their agreement to comply with procedures to protect confidential or proprietary information as may be required by the Transmission Provider.

Meetings will be conducted to (i) provide an opportunity for the Transmission Provider to increase its understanding of Interested Persons' perspectives with respect to planning alternatives; (ii) offer Interested Persons an opportunity to be informed about transmission system requirements or opportunities identified by the Transmission Provider; (iii) review results of studies determined to be relevant by the Transmission Provider; and (iv) provide feedback with respect to planning alternatives.

5.2 Format

In accordance with the terms of Attachment K, the Transmission Provider will post on the Planning Web Page the description of that identified requirement or opportunity and a

ACCEPTED:

brief review of the planning alternatives. An initial TRG meeting will be scheduled to, among other things, establish need for confidentiality, discuss views generally in relation to the planning alternatives and to submit written submissions, if desired. The Transmission Provider will then take away the input received from the Interested Persons and prepare a draft planning alternative informed by such input. The draft planning alternative will then be posted on The Planning Web Page for further review and comment by the Interested Persons within a specified period of time.

Although the TRG process is described sequentially, the actual activities may be performed on a flexible, iterative and non-sequential basis, depending on the needs and wishes of the Transmission Provider informed by input from the particular TRG.

5.3 Administrative Matters

Meeting notices, including date, time, location and meeting agenda will be posted on the Transmission Provider's Planning Web Page. The agendas will identify the subject matter of the particular meeting, be posted on the Planning Web Page and be circulated to its distribution list in advance of the meetings to assist Interested Persons to choose their meeting attendance efficiently. A subscription page will be set up that allows Interested Persons to sign-up for email distribution.

The meetings will be informal and will be facilitated by a representative from the Transmission Provider, who will be responsible for guiding discussion, identifying issues to be covered, establishing governing rules as necessary and collecting appropriate information to inform the draft planning alternative.

Interested Persons are encouraged to provide, in a timely manner, input, comments, advice and questions into the process electronically by sending an email to the Transmission Provider's designated point of contact.

Where no confidentiality concerns have been raised and determined by the Transmission Provider to require any further action, the Transmission Provider will post

ACCEPTED:

all meeting-related notes, documents and draft or final planning alternatives on the Planning Web Page.

6. Draft Planning Alternative

While the Transmission Provider will be informed in its transmission planning by comments, input, feedback or recommendations from the TRG, any such comments, input, feedback or recommendations shall not be binding upon the Transmission Provider in any manner. In the event that a TRG is unable to reach a consensus on the attributes of a draft planning alternative, it shall be of no consequence to the Transmission Provider in its final determination of a planning alternative.

7. Standards of Conduct

Every TRG and all of its respective processes and procedures are subject to the Transmission Provider's Standards of Conduct.

8. Confidentiality

The Transmission Provider may, as a condition to participation, require Interested Persons to sign a non-disclosure agreement with respect to information gathered, exchanged or disclosed during the TRG process. Notwithstanding the foregoing, all of the information, input, comments and feedback provided in connection with a TRG will be deemed to be public and not confidential in nature unless otherwise expressly indicated to the Transmission Provider prior to disclosure to the Transmission Provider or TRG.

9. Ownership

Any and all documents, reports, analysis and other works prepared by a TRG shall be and remain the property of the Transmission Provider.

ACCEPTED:

ATTACHMENT L

Creditworthiness Provisions

1. Preamble

This Attachment L contains the Transmission Provider's Creditworthiness Provisions and is supplemented by a detailed Credit Administration Procedure (OATT Credit Procedure), which is published on the Transmission Provider's public website, with a corresponding link to the OATT Credit Procedure provided on the Transmission Provider's OASIS.

2. Credit Review

For the purpose of determining the ability of the Transmission Customer to meet its obligations related to Transmission Service, the Transmission Provider will apply the credit review provisions described in this Attachment L. A credit review shall be conducted for each Transmission Customer not less than annually, or upon reasonable request by the Transmission Customer.

3. Creditworthiness

A Transmission Customer is creditworthy if

 the Transmission Customer has the requisite long-term debt rating from a nationally recognized debt rating agency as indicated in the Transmission Provider's OATT Credit Procedure;

or

 (ii) if the Transmission Customer does not have a long-term debt rating, the Transmission Customer has the requisite short-term debt rating from a nationally recognized debt rating agency as indicated in the Transmission Provider's OATT Credit Procedure.

ACCEPTED:

ORDER NO.

Where the Transmission Customer has multiple ratings from nationally recognized debt rating agencies, the lowest rating shall determine creditworthiness,.

4. Creditworthiness Criteria

If the credit exposure is within the maximum credit limit set forth in the OATT Credit Procedure, a Transmission Customer that meets either requirement described in Section 4(i) or Section 4(ii) shall not be required to provide any form of security against the risk of nonpayment for any type of service , including deposits for studies that otherwise would be required pursuant to Sections 17.3, 19.1, 19.4, 29.2, 32.1 and 32.4 of the Transmission Provider's Open Access Transmission Tariff (the Tariff). A Transmission Customer that meets either requirement described in Section 4(i) or Section 4(ii) shall remain subject to any requirements of the Tariff to provide security related to the cost of new facilities or upgrades, including letters of credit or other forms of security required in accordance with Attachment O.

- (i) The Transmission Customer
 - (a) is creditworthy in accordance with Section 3 of this Attachment L, and
 - (b) is not in default of its payment obligations under Section 7.3 of the Tariff;

or

- (ii) The Transmission Customer's parent company
 - (a) is creditworthy in accordance with Section 3 of this Attachment L and the parent company provides a written guarantee that the parent company will be unconditionally responsible to the Transmission Provider for all financial obligations associated with the transmission service subscribed to by the Transmission Customer, and
 - (b) is not in default of its payment obligations under Section 7.3 of the Tariff.

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5. Requirements for Customers Not Meeting Creditworthiness Criteria:

A Transmission Customer that does not meet the creditworthiness criteria set out in Section 4 above shall comply with one of the following:

(i) Providing Security

The Transmission Customer shall provide security for the lesser of (i) the total charge for service or (ii) the charge for ninety (90) days of service by the later of five (5) Business Days prior to the commencement of service or the time when it makes the request for transmission service. The security will be either an unconditional and irrevocable letter of credit drawn on a financial institutional acceptable to the Transmission Provider or an alternative form of security acceptable to the Transmission Provider and consistent with commercial practices established under the laws of Canada and the Province of British Columbia that protects the Transmission Provider against the risk of non-payment. If the financial institution on which the letter of credit is drawn or the alternative form of security cease to be acceptable to the Transmission Provider, then the Transmission Provider's requirements, as stated above, within 30 Calendar Days of notice being provided to the Transmission Customer.

or

- (ii) Pre-paying service
 - (a) For service of one month or less, the Transmission Customer shall pay the total charge for service by the later of five (5) Business Days prior to the commencement of service or the time when it makes the request for transmission service.
 - (b) For service of greater than one month, the Transmission Customer shall pay for each month's service not less than five (5) Business Days prior to the

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beginning of that month. For Network Integration Transmission Service customers, the advance payment for each month shall be based on a reasonable estimate by the Transmission Provider of the charge for that month.

the Transmission Provider will not provide transmission service requested by the Transmission Customer unless one of the conditions described in Section 5(i) and 5(ii) of this Attachment L is met.

6. Changes in Creditworthiness Status

If a Transmission Customer fails to meet the requirements of Section 4 of this Attachment L at any time after transmission service is requested, the Transmission Customer will, within 5 days of notification by the Transmission Provider, either (a) pay in advance for thirty (30) Calendar Days of transmission service or (b) provide an unconditional and irrevocable letter of credit or alternative form of security acceptable to the Transmission Provider in an amount equal to the charge for thirty (30) Calendar Days of transmission service. Within thirty (30) Calendar Days of such notification the Transmission Customer shall meet the requirements of Section 5 of this Attachment L.

7. Suspension of Service

The Transmission Provider may suspend service to a Transmission Customer who does not meet the creditworthiness criteria of Section 4 of this Attachment L under the following circumstances:

(i) If the Transmission Customer qualifies for service pursuant to Section 5 of this Attachment L as a result of providing a letter or credit or alternative form of security, and it does not pay its bill within in accordance with Section 7.1 of the Tariff, and it has not initiated a billing dispute in accordance with Section 7.3 of the Tariff, the Transmission Provider may suspend service thirty (30) Calendar Days after written notice to the Transmission Customer and the Commission that the service will be suspended unless the Transmission Customer pays its bills within this thirty (30) Calendar Day period.

- (ii) If the Transmission Customer qualifies for service as a result of committing to prepay for service pursuant to Section 5(ii) of this Attachment L, and it fails to prepay for service as provided in such section, the Transmission Provider may refuse or suspend service, as applicable, immediately upon written notice to the Transmission Customer and the Commission.
- (iii) If the Transmission Customer loses its creditworthy status as a result of circumstances other than a default of its payment obligations and it fails to meet the credit security requirements of Section 6 of this Attachment L, but it either pays its bills within the time period provided in Section 7.1 of the Tariff or initiates a billing dispute in accordance with Section 7.3 of the Tariff, the Transmission Provider may suspend service thirty (30) Calendar Days after written notice to the Transmission Customer and the Commission that the service will be suspended unless the Transmission Customer meets the credit security requirements of Section 5 of this Attachment L.
- (iv) If the Transmission Customer loses its creditworthy status because it is in default of its payment obligations under Section 7.3 of the Tariff and it fails to meet the requirements of Section 6 of this Attachment L, the Transmission Provider may suspend service five (5) Business Days after written notice to the Transmission Customer and the Commission that service will be suspended if the Transmission Customer does not meet the requirements of Section 6 of this Attachment L.

The suspension of service shall continue only for as long as the circumstances that entitle the Transmission Provider to suspend service continue. A Transmission Customer is not obligated to pay for Transmission Service that is not provided as a result of a suspension of service.

8. Notice of Change in Creditworthiness Status and Security Requirements

ACCEPTED:

If the Transmission Provider determines that there has been a change in the creditworthiness status or security requirements of a Transmission Customer it will notify the Transmission Customer within 5 Business Days.

9. Written Explanation for any Change in Creditworthiness Status and Security Requirements

Upon request made in writing by the Transmission Customer to the Transmission Provider, the Transmission Provider will provide to the Transmission Customer a written explanation of any change in the creditworthiness status or security requirements of the Transmission Customer within 5 Business Days.

10. Contesting Determinations of Creditworthiness Status and Security Requirements

If a Transmission Customer disagrees with the Transmission Provider's determination of the Transmission Customer's creditworthiness or credit security requirements, the Transmission Customer may write to the Transmission Provider explaining the nature of the disagreement. The Transmission Provider will consider the comments, review the application of its credit provisions to the Transmission Customer and notify the Transmission Customer of the results of its review within 5 Business Days.

ATTACHMENT M-1

Standard Generator Interconnection Procedures (SGIP) including Standard Generator Interconnection Agreement (SGIA)

ACCEPTED:_____

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List of Appendices

Appendix 1. Interconnection Request for a Generating Facility

Appendix 2. Interconnection Feasibility Study Agreement

- Appendix 3. Combined Study Agreement
- Appendix 4. Optional Interconnection Study Agreement

Appendix 5. Standard Generator Interconnection Agreement

ACCEPTED:_____

1.0 Definitions

Capitalized terms used but not defined in these SGIP shall have the meanings given to them elsewhere in the Tariff. In these SGIP:

Adverse System Impact shall mean the negative effects due to technical or operational limits on conductors or equipment being exceeded that may compromise the safety and reliability of the electric system.

Affected System shall mean an electric system other than the Transmission Provider's Transmission System that may be affected by the proposed interconnection.

Affected System Operator shall mean the entity that operates an Affected System.

Affiliate shall mean, with respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

Ancillary Services shall mean those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

Applicable Laws and Regulations shall mean all duly promulgated applicable federal, provincial and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority.

Applicable Reliability Coordinator shall mean the Reliability Coordinator as defined in the Applicable Reliability Standards and which is currently recognized as WECC.

ACCEPTED:

Applicable Reliability Standards shall mean the reliability standards and guidelines adopted by the Commission in British Columbia, to the extent that those standards and guidelines apply to the Interconnection Customer, and the Control Area of the Transmission System.

Base Case shall mean the base case power flow, short circuit, and stability data bases used for the Interconnection Studies.

Breach shall mean the failure of a Party to perform or observe any material term or condition of the Standard Generator Interconnection Agreement.

Breaching Party shall mean a Party that is in Breach.

Business Day shall mean Monday through Friday, excluding Holidays.

Calendar Day shall mean any day including Saturday, Sunday or a Holiday.

Clustering shall mean the process whereby a group of Interconnection Requests is studied together, instead of serially, for purposes of Interconnection System Impact Studies and Interconnection Facilities Studies.

Combined Study Agreement shall mean the form of agreement contained in Appendix 3 of the SGIP.

Commercial Operation shall mean the status of a Generating Facility that has commenced generating electricity for sale, excluding electricity generated during Trial Operation.

Commercial Operation Date of a unit shall mean the date on which the Generating Facility commences Commercial Operation as agreed to by the Parties pursuant to Appendix D to the Standard Generator Interconnection Agreement.

Commission means the British Columbia Utilities Commission, or its successor.

ACCEPTED:

Confidential Information shall mean any confidential, proprietary or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy or compilation relating to the present or planned business of a Party, which is designated as confidential by the Party supplying the information, whether conveyed orally, electronically, in writing, through inspection, or otherwise.

Control Area shall mean an electrical system or systems bounded by interconnection metering and telemetry, capable of controlling generation to maintain its interchange schedule with other Control Areas and contributing to frequency regulation of the interconnection. The Control Area is the Balancing Authority Area as defined in the Applicable Reliability Standards.

Default shall mean the failure of a Breaching Party to cure its Breach in accordance with Article 17 of the Standard Generator Interconnection Agreement.

Dispute Resolution shall mean the procedure for resolution of a dispute between the Parties as set out in Appendix G to the SGIA.

Emergency Condition shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life, or property; or (2) that, in the case of a Transmission Provider, is imminently likely (as determined in a non discriminatory manner) to cause a material adverse effect on the security of, or damage to Transmission Provider's Transmission System, Transmission Provider's Interconnection Facilities or the electric systems of others to which the Transmission Provider's Transmission System is directly connected; or (3) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided that Interconnection Customer is not obligated by the Standard Generator Interconnection Agreement to possess black start capability.

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Energy Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to connect its Generating Facility to the Transmission Provider's Transmission System to be eligible to deliver the Generating Facility's electric output using the existing firm or non-firm capacity of the Transmission Provider's Transmission System on an as available basis. Energy Resource Interconnection Service in and of itself does not convey transmission service.

Engineering & Procurement (E&P) Agreement shall mean an agreement that authorizes the Transmission Provider to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection in order to advance the implementation of the Interconnection Request.

Environmental Law shall mean Applicable Laws or Regulations relating to pollution or protection of the environment or natural resources.

Force Majeure shall mean any act of God, labour disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include acts of negligence or intentional wrongdoing by the Party claiming Force Majeure.

Generating Facility shall mean Interconnection Customer's device for the production of electricity identified in the Interconnection Request, but shall not include Interconnection Customer's Interconnection Facilities.

Generating Facility Capacity shall mean the net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple energy production devices.

Good Utility Practice shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period,

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or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region, including any reliability standards adopted by the Commission pursuant to section 125.2 of the British Columbia Utilities Commission Act.

Governmental Authority shall mean any federal, provincial, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include Interconnection Customer, Transmission Provider, or any Affiliate thereof.

Hazardous Substances shall mean any chemicals, materials or substances defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "hazardous constituents," "restricted hazardous materials," "extremely hazardous substances," "toxic substances," "radioactive substances," "contaminants," "pollutants," "toxic pollutants" or words of similar meaning and regulatory effect under any applicable Environmental Law, or any other chemical, material or substance, exposure to which is prohibited, limited or regulated by any applicable Environmental Law.

Holiday shall mean a statutory holiday in British Columbia.

Initial Synchronization Date shall mean the date upon which the Generating Facility is initially synchronized and upon which Trial Operation begins.

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In-Service Date shall mean the date upon which the Interconnection Customer reasonably expects it will be ready to begin use of the Transmission Provider's Interconnection Facilities to obtain back feed power.

Interconnection Customer shall mean any entity, including Transmission Provider or any of the Affiliates or subsidiaries, that proposes to interconnect its Generating Facility with the Transmission Provider's Transmission System.

Interconnection Customer's Interconnection Facilities shall mean all facilities and equipment, as identified in Appendix A of the Standard Generator Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Customer's Interconnection Facilities are sole use facilities.

Interconnection Facilities shall mean the Transmission Provider's Interconnection Facilities and the Interconnection Customer's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

Interconnection Facilities Study shall mean a study conducted by the Transmission Provider or, at the option of the Transmission Provider, by a third party consultant for the Interconnection Customer to determine a list of facilities (including Transmission Provider's Interconnection Facilities and Network Upgrades, as identified in the Interconnection System Impact Study), the cost of those facilities, and the time required to interconnect the Generating Facility with the Transmission Provider's Transmission

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System. The scope of the study is defined in Section 8.3 of the Standard Generation Interconnection Procedures.

Interconnection Feasibility Study shall mean a preliminary evaluation of the system impact and cost of interconnecting the Generating Facility to the Transmission Provider's Transmission System, the scope of which is described in Section 6 of the Standard Generator Interconnection Procedures.

Interconnection Feasibility Study Agreement shall mean the form of agreement contained in Appendix 2 of the Standard Generator Interconnection Procedures for conducting the Interconnection Feasibility Study.

Interconnection Request shall mean an Interconnection Customer's request, in the form of Appendix 1 including Attachments to the Standard Generator Interconnection Procedures, in accordance with the Tariff, to interconnect a new Generating Facility, or to increase the capacity of, or make a Material Modification to the operating characteristics of, an existing Generating Facility that is interconnected with the Transmission Provider's Transmission System.

Interconnection Service shall mean the service provided by the Transmission Provider associated with interconnecting the Interconnection Customer's Generating Facility to the Transmission Provider's Transmission System and enabling it to receive electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of the Standard Generator Interconnection Agreement and, if applicable, the Transmission Provider's Tariff.

Interconnection Study shall mean any of the following studies: the Interconnection Feasibility Study, the Interconnection System Impact Study, and the Interconnection Facilities Study described in the Standard Generator Interconnection Procedures.

Interconnection System Impact Study shall mean an engineering study that evaluates the impact of the proposed interconnection on the safety and reliability of Transmission

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Provider's Transmission System and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility were interconnected without project modifications or system modifications, focusing on the Adverse System Impacts identified in the Interconnection Feasibility Study, or to study potential impacts, including but not limited to those identified in the Scoping Meeting as described in the Standard Generator Interconnection Procedures.

Interest means interest calculated as defined in the Transmission Provider's Business Practices for the applicable period, and shall be calculated from the day a deposit or payment is credited to the Transmission Provider's account.

Joint Operating Committee shall be a group made up of representatives from Interconnection Customers and the Transmission Provider to coordinate operating and technical considerations of Interconnection Service.

Material Modification shall mean those modifications that have a material impact on the cost or timing of any Interconnection Request with a later queue priority date or that would affect the reliability or stability of the Transmission System.

Metering Equipment shall mean all metering equipment installed or to be installed pursuant to the Standard Generator Interconnection Agreement, including but not limited to instrument transformers, MWh-meters, data acquisition equipment, transducers, remote terminal unit, communications equipment, phone lines, and fiber optics.

Network Resource shall have the meaning provided in the Tariff.

Network Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to integrate its Generating Facility with the Transmission Provider's Transmission System in the same manner as Network Resources. Network Resource Interconnection Service in and of itself does not convey transmission service.

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Network Upgrades shall mean the additions, modifications, and upgrades to the Transmission Provider's Transmission System required at or beyond the Point of Interconnection to accommodate the interconnection of the Generating Facility to the Transmission Provider's Transmission System.

Operating Region means any one of the following of Transmission Provider's planning regions: Metro Vancouver, Fraser Valley, Vancouver Island, Northern Interior and Southern Interior, and **Operating Regions** means all of them.

Optional Interconnection Study shall mean a sensitivity analysis based on assumptions specified by the Interconnection Customer in the Optional Interconnection Study Agreement.

Optional Interconnection Study Agreement shall mean the form of agreement contained in Appendix 4 of the Standard Generator Interconnection Procedures for conducting the Optional Interconnection Study.

Party shall mean Transmission Provider or Interconnection Customer and **Parties** shall mean both of them.

Point of Change of Ownership shall mean the point, as set forth in Appendix A to the Standard Generator Interconnection Agreement, where the Interconnection Customer's Interconnection Facilities connect to the Transmission Provider's Interconnection Facilities.

Point of Interconnection shall mean the point where the Interconnection Facilities are to connect to the Transmission Provider's Transmission System, as determined pursuant to the SGIP.

Queue Position shall mean, subject to Attachment M-2, the order of a valid Interconnection Request, relative to all other pending valid Interconnection Requests, that is established based upon the date and time of receipt of the valid Interconnection Request by the Transmission Provider.

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Reasonable Efforts shall mean, with respect to an action required to be attempted or taken by a Party under the Standard Generator Interconnection Agreement, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

Scoping Meeting shall mean the meeting between representatives of the Interconnection Customer and Transmission Provider conducted for the purpose of discussing alternative interconnection options, to exchange information including any transmission data and earlier study evaluations that would be reasonably expected to impact such interconnection options, to analyze such information, and to determine the potential feasible Points of Interconnection.

Site Control shall mean documentation reasonably demonstrating: (1) ownership of, a leasehold interest in, or a right to develop a site for the purpose of constructing the Generating Facility; (2) an option to purchase or acquire a leasehold site for such purpose; or (3) an exclusivity or other business relationship between Interconnection Customer and the entity having the right to sell, lease or grant Interconnection Customer the right to possess or occupy a site for such purpose.

Stand Alone Network Upgrades shall mean Network Upgrades that an Interconnection Customer may construct without affecting day-to-day operations of the Transmission System during their construction. Both the Transmission Provider and the Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify them in Appendix A to the Standard Generator Interconnection Agreement.

Standard Generator Interconnection Agreement (SGIA) shall mean the form of interconnection agreement applicable to an Interconnection Request pertaining to a Generating Facility, that is included in the Transmission Provider's Tariff.

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Standard Generator Interconnection Procedures (SGIP) shall mean the interconnection procedures applicable to an Interconnection Request pertaining to a Generating Facility that are included in the Transmission Provider's Tariff.

System Protection Facilities shall mean the equipment, including necessary protection signal communications equipment, required to protect (1) the Transmission Provider's Transmission System from faults or other electrical disturbances occurring at the Generating Facility and (2) the Generating Facility from faults or other electrical system disturbances occurring on the Transmission Provider's Transmission System or on other delivery systems or other generating systems to which the Transmission Provider's Transmission System is directly connected.

Tariff shall mean the Transmission Provider's tariff through which open access transmission service and Interconnection Service are offered, as filed with the Commission, and as amended or supplemented from time to time, or any successor tariff.

Transmission Provider shall mean BC Hydro.

Transmission Provider's Interconnection Facilities (TPIF) shall mean all facilities and equipment owned, controlled, or operated by the Transmission Provider from the Point of Change of Ownership to the Point of Interconnection as identified in Appendix A to the Standard Generator Interconnection Agreement, including any modifications, additions or upgrades to such facilities and equipment. Transmission Provider's Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

Transmission System shall mean the facilities owned, controlled or operated by the Transmission Provider that are used to provide transmission service under the Tariff.

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Trial Operation shall mean the period during which Interconnection Customer is engaged in on-site test operations and commissioning of the Generating Facility prior to Commercial Operation.

WECC shall mean Western Electricity Coordinating Council, or any successor organization.

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2.0 Scope and Application

2.1 Application of Standard Generator Interconnection Procedures

Sections 2 through 13 apply to processing an Interconnection Request.

2.2 Comparability

Transmission Provider shall receive, process and analyze all Interconnection Requests in a timely manner as set forth in this SGIP. Transmission Provider will use the same Reasonable Efforts in processing and analyzing Interconnection Requests from all Interconnection Customers, whether the Generating Facilities are owned by Transmission Provider, its subsidiaries or Affiliates or others.

2.3 Base Case Data

Transmission Provider shall provide base power flow, short circuit and stability databases, including all underlying assumptions, and contingency list upon request subject to confidentiality provisions in SGIP Section 13.1. Transmission Provider is permitted to require that Interconnection Customer sign a confidentiality agreement before the release of commercially sensitive information in the Base Case data. Such databases and lists, hereinafter referred to as Base Cases, shall include all (1) generation projects and (ii) transmission projects, including merchant transmission projects that are proposed for the Transmission System for which a transmission expansion plan has been submitted and approved by the Commission.

2.4 No Applicability to Transmission Service

Nothing in this SGIP shall constitute a request for transmission service or confer upon an Interconnection Customer any right to receive transmission service.

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3.0 Interconnection Requests

3.1 General

An Interconnection Customer shall submit to Transmission Provider an Interconnection Request in the form of Appendix 1 including Attachments to this SGIP. Interconnection Customer shall submit a separate Interconnection Request for each site and may submit multiple Interconnection Requests for a single site. Interconnection Customer must submit a deposit with each Interconnection Request even when more than one request is submitted for a single site. An Interconnection Request to evaluate one site at two different voltage levels shall be treated as two Interconnection Requests.

At Interconnection Customer's option, Transmission Provider and Interconnection Customer will identify alternative Point(s) of Interconnection and configurations at the Scoping Meeting to evaluate in this process and attempt to eliminate alternatives in a reasonable fashion given resources and information available. Interconnection Customer will select the definitive Point(s) of Interconnection to be studied no later than the execution of the Interconnection Feasibility Study Agreement.

3.2 Identification of Types of Interconnection Services

At the time the Interconnection Request is submitted, Interconnection Customer must request either Energy Resource Interconnection Service or Network Resource Interconnection Service, as described; provided, however, any Interconnection Customer requesting Network Resource Interconnection Service may, at any time before or concurrent with the delivery of notice to proceed with an Interconnection Facilities Study pursuant to Section 8.2, also request that it be concurrently studied for Energy Resource Interconnection Service. Interconnection Customer may then elect to proceed with Network Resource Interconnection Service or to proceed under a lower level of interconnection service to the extent that only certain upgrades will be completed.

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3.2.1 Energy Resource Interconnection Service

3.2.1.1 The Product

Energy Resource Interconnection Service allows Interconnection Customer to connect the Generating Facility to the Transmission System and be eligible to deliver the Generating Facility's output using the existing firm or non-firm capacity of the Transmission System on an "as available" basis. Energy Resource Interconnection Service does not in and of itself convey any right to deliver electricity to any specific customer or Point of Delivery.

3.2.1.2 The Study

The study consists of short circuit/fault duty, steady state (thermal and voltage) and stability analyses. The short circuit/fault duty analysis would identify direct Interconnection Facilities required and the Network Upgrades necessary to address short circuit issues associated with the Interconnection Facilities. The stability and steady state studies would identify necessary upgrades to allow full output of the proposed Generating Facility and would also identify the maximum allowed output, at the time the study is performed, of the interconnecting Generating Facility without requiring additional Network Upgrades.

3.2.2 Network Resource Interconnection Service

3.2.2.1 The Product

Transmission Provider must conduct the necessary studies and construct the Network Upgrades needed to integrate the Generating Facility in the same manner as Network Resources. Network Resource Interconnection Service allows Interconnection Customer's Generating Facility to be designated as a Network Resource, up to the Generating Facility's full output, on the same basis as existing Network Resources interconnected to Transmission Provider's Transmission System, and to be studied as a Network Resource on the assumption that such a designation will occur.

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3.2.2.2 The Study

The Interconnection Study for Network Resource Interconnection Service shall assure that Interconnection Customer's Generating Facility meets the requirements for Network Resource Interconnection Service and as a general matter, that such Generating Facility's interconnection is also studied with Transmission Provider's Transmission System at peak load, under a variety of severely stressed conditions, to determine whether, with the Generating Facility at full output, the aggregate of generation in the local area can be delivered to the aggregate of load on Transmission Provider's Transmission System, consistent with Transmission Provider's reliability criteria and procedures. This approach assumes that some portion of existing Network Resources is displaced by the output of Interconnection Customer's Generating Facility. Network Resource Interconnection Service in and of itself does not convey any right to deliver electricity to any specific customer or Point of Delivery.

3.3 Valid Interconnection Request

3.3.1 Initiating an Interconnection Request

Subject to Attachment M-2, to initiate an Interconnection Request, Interconnection Customer must submit all of the following: (i) an initial non-refundable \$15,000 deposit, and (ii) a completed application in the form of Appendix 1 including Attachments. Such deposits shall be applied toward any Interconnection Studies pursuant to the Interconnection Request. If an Interconnection Customer demonstrates Site Control within fifteen (15) Business Days of submitting its Interconnection Request, the deposit shall become refundable.

The expected In-Service Date of the new Generating Facility or increase in capacity of the existing Generating Facility shall be no more than the process window for the regional expansion planning period (or in the absence of a regional planning process, the process window for Transmission Provider's expansion planning period) not to exceed seven years from the date the Interconnection Request is received by

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Transmission Provider, unless Interconnection Customer demonstrates that engineering, permitting and construction of the new Generating Facility or increase in capacity of the existing Generating Facility will take longer than the regional expansion planning period. The In-Service Date may succeed the date the Interconnection Request is received by Transmission Provider by a period up to ten years, or longer where Interconnection Customer and Transmission Provider agree, such agreement not to be unreasonably withheld.

3.3.2 Acknowledgment of Interconnection Request

Subject to Attachment M-2, Transmission Provider shall acknowledge receipt of the Interconnection Request within five (5) Business Days of receipt of the request and attach a copy of the received Interconnection Request to the acknowledgement.

3.3.3 Deficiencies in Interconnection Request

Subject to Attachment M-2, an Interconnection Request will not be considered to be a valid request until all items in Section 3.3.1 have been received by Transmission Provider. If an Interconnection Request fails to meet the requirements set forth in Section 3.3.1, Transmission Provider shall notify Interconnection Customer within five (5) Business Days of receipt of the initial Interconnection Request of the reasons for such failure and that the Interconnection Request does not constitute a valid request. Interconnection Customer shall provide Transmission Provider the additional requested information needed to constitute a valid request within ten (10) Business Days after receipt of such notice. Failure by Interconnection Customer to comply with this Section 3.3.3 shall be treated in accordance with Section 3.6.

3.3.4 Scoping Meeting

Within ten (10) Business Days after receipt of a valid Interconnection Request, Transmission Provider shall establish a date agreeable to Interconnection Customer for the Scoping Meeting, and such date shall be no later than thirty (30) Calendar Days from

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receipt of the valid Interconnection Request, unless otherwise mutually agreed upon by the Parties.

The purpose of the Scoping Meeting shall be to discuss alternative interconnection options, to exchange information including any transmission data that would reasonably be expected to impact such interconnection options, to analyze such information and to determine the potential feasible Points of Interconnection. Transmission Provider and Interconnection Customer will bring to the meeting such technical data, including, but not limited to: (i) general facility loadings, (ii) general instability issues, (iii) general short circuit issues, (iv) general voltage issues, and (v) general reliability issues as may be reasonably required to accomplish the purpose of the meeting. Transmission Provider and Interconnection Customer will also bring to the meeting personnel and other resources as may be reasonably required to accomplish the purpose of the meeting. Interconnection Customer shall designate its Point of Interconnection, pursuant to Section 6.1, and one or more available alternative Point(s) of Interconnection. The duration of the meeting shall be sufficient to accomplish its purpose.

Notwithstanding Section 4.4, the Transmission Customer may modify the Point(s) of Interconnection designated in its Interconnection Request on or before the return of the executed Interconnection Feasibility Study Agreement to the Transmission Provider.

This section is subject to Attachment M-2.

3.4 OASIS Posting

Transmission Provider will maintain on its OASIS a list of all Interconnection Requests. The list will identify, for each Interconnection Request: (i) the maximum summer and winter megawatt electrical output; (ii) the location by Operating Region; (iii) the station or transmission line or lines where the interconnection will be made; (iv) the projected In-Service Date; (v) the status of the Interconnection Request, including Queue Position; (vi) the type of Interconnection Service being requested; (vii) the availability of any

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studies related to the Interconnection Request; (viii) the date of the Interconnection Request; (ix) the type of Generating Facility to be constructed (technology and fuel type); and (x) for Interconnection Requests that have not resulted in a completed interconnection, an explanation as to why it was not completed. The list will not disclose the identity of Interconnection Customer until Interconnection Customer executes an SGIA or requests that Transmission Provider file an unexecuted SGIA with the Commission. Before holding a Scoping Meeting with its Affiliate, Transmission Provider shall post on OASIS an advance notice of its intent to do so. Transmission Provider shall post to its OASIS site any deviations from the study timelines set forth herein. Subject to Attachment M-2, Interconnection Study reports and Optional Interconnection Study reports shall be posted to Transmission Provider's OASIS site subsequent to the meeting between Interconnection Customer and Transmission Provider to discuss the applicable study results. Transmission Provider shall also post any known deviations in the Generating Facility's In-Service Date.

This section is subject to Attachment M-2.

3.5 Coordination with Affected Systems

Transmission Provider will attempt to coordinate the conduct of any studies required to determine the impact of the Interconnection Request on Affected Systems with Affected System Operators and, if possible, include those results (if available) in its applicable Interconnection Study within the time frame specified in this SGIP. Interconnection Customer will cooperate with Transmission Provider in all matters related to the conduct of studies and the determination of modifications to Affected Systems.

3.6 Withdrawal

Interconnection Customer may withdraw its Interconnection Request at any time by written notice of such withdrawal to Transmission Provider. In addition, if Interconnection Customer fails to adhere to all requirements of these SGIP, except as provided in Section 13.5 (Disputes), Transmission Provider shall deem the Interconnection Request

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to be withdrawn and shall provide written notice to Interconnection Customer of the deemed withdrawal and an explanation of the reasons for such deemed withdrawal. Upon receipt of such written notice, Interconnection Customer shall have fifteen (15) Business Days in which to either respond with information or actions that cures the deficiency or to initiate Dispute Resolution.

Withdrawal shall result in the loss of Interconnection Customer's Queue Position. If an Interconnection Customer disputes the withdrawal and loss of its Queue Position, then during Dispute Resolution, Interconnection Customer's Interconnection Request is eliminated from the queue until such time that the outcome of Dispute Resolution would restore its Queue Position. If the outcome of Dispute Resolution is to restore that Interconnection Request to the queue anywhere above an Interconnection Request with respect to which an SGIA was executed by Transmission Provider at any time after the commencement of such Dispute Resolution, and provided that SGIA differs from the SGIA that would have been executed had the disputing Interconnection Customer's Interconnection Request not been eliminated from the queue during Dispute Resolution, then Transmission Provider shall apply to the Commission for a determination of how the restoration of the Interconnection Request to the queue should impact any such SGIA, if at all.

An Interconnection Customer that withdraws or is deemed to have withdrawn its Interconnection Request shall pay to Transmission Provider all costs that Transmission Provider prudently incurs with respect to that Interconnection Request prior to Transmission Provider's receipt of notice described above. Interconnection Customer must pay all monies due to Transmission Provider before it is allowed to obtain any Interconnection Study data or results.

Transmission Provider shall (i) update the OASIS Queue Position posting and (ii) refund to Interconnection Customer any refundable portion of Interconnection Customer's deposit or study payments that exceeds the costs that Transmission Provider has incurred, including Interest. In the event of such withdrawal, Transmission Provider,

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subject to the confidentiality provisions of Section 13.1, shall provide, at Interconnection Customer's request, all information that Transmission Provider developed for any completed study conducted up to the date of withdrawal of the Interconnection Request.

4.0 Queue Position

4.1 General

Transmission Provider shall assign a Queue Position based upon the date and time of receipt of the valid Interconnection Request; provided that, if the sole reason an Interconnection Request is not valid is the lack of required information on the application form, and Interconnection Customer provides such information in accordance with Section 3.3.3, then Transmission Provider shall assign Interconnection Customer a Queue Position based on the date and time the application form was originally filed. Moving a Point of Interconnection shall result in a lowering of Queue Position if it is deemed a Material Modification under Section 4.4.3.

The Queue Position of each Interconnection Request will be used to determine the order of performing the Interconnection Studies and determination of cost responsibility for the facilities necessary to accommodate the Interconnection Request. A higher queued Interconnection Request is one that has been placed "earlier" in the queue in relation to another Interconnection Request that is lower queued.

4.2 Clustering

At Transmission Provider's option, Interconnection Requests may be studied using Clustering. If Transmission Provider elects to study Interconnection Requests using Clustering, all Interconnection Requests received within a period not to exceed one hundred and eighty (180) Calendar Days, hereinafter referred to as the "Queue Cluster Window", shall be studied together. Transmission Provider, may at its option, establish Queue Cluster Windows for any one or more Operating Regions, in which case only those Generating Facilities with Points of Interconnection within such Operating

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Region(s) received within the Queue Cluster Window shall be studied together using Clustering. Transmission Provider may study an Interconnection Request separately to the extent warranted by Good Utility Practice based upon the electrical remoteness of the proposed Generating Facility. Transmission Provider may, at its option, limit the number of Interconnection Requests Interconnection Customers may submit during a Queue Cluster Window for the same Generating Facility.

Clustering shall be conducted in such a manner to ensure the efficient implementation of the applicable regional transmission expansion plan in light of the Transmission System's capabilities at the time.

The Queue Cluster Window shall have a fixed time interval based on fixed annual opening and closing dates. Any changes to the established Queue Cluster Window interval and opening or closing dates shall be announced with a posting on Transmission Provider's OASIS beginning at least one hundred and eighty (180) Calendar Days in advance of the change and continuing thereafter through the end date of the first Queue Cluster Window that is to be modified.

Transmission Provider may allocate the costs of Interconnection Studies carried out pursuant to Clustering, and the costs of Network Upgrades and Interconnection Facilities identified as required by those Interconnection Studies, between or among the Interconnection Customers having filed the Interconnection Requests that are the subject of the Clustering pro rata, based on the maximum MW electrical output of the Generating Facility (if the Interconnection Request is for a new Generating Facility) or the increase in MW electrical output of the Generating Facility (if the Interconnection Request is for an increase in the generating capacity of an existing Generating Facility) from each Interconnection Request, notwithstanding their Queue Positions.

Notwithstanding Section 11, within fifteen (15) Calendar Days of the date on which the Transmission Provider delivers the draft Interconnection Facilities Study report to Interconnection Customers whose Interconnection Requests have been studied

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pursuant to Clustering, each Interconnection Customer shall indicate on OASIS whether it is willing to pay and provide security for its applicable share of the good faith estimate of costs contained in the Facilities Study in accordance with Attachment O of the Tariff. Within thirty (30) Calendar Days after comments on the draft Interconnection Facilities Study report are submitted by the Interconnection Customers to the Transmission Provider, Transmission Provider shall tender a draft SGIA, together with draft appendices completed to the extent practicable, to each Interconnection Customer that has indicated that it is willing to pay and provide security for its applicable share of the costs. Each tendered SGIA shall be contingent on execution by each other Interconnection Customer receiving an SGIA. The remaining provisions of Section 11 with respect to the tender, negotiation and execution of SGIAs apply, except that if any one or more SGIAs so tendered is not executed by the applicable Interconnection Customer(s) and returned with evidence that milestones have been achieved pursuant to Section 11.3 by the deadline for execution of the SGIA by the Interconnection Customer, the Transmission Provider shall, within fifteen (15) Calendar Days thereafter, reissue SGIAs to those Interconnection Customers that executed the previous SGIA reapportioning the costs contained in the Interconnection Facilities Study among those remaining Interconnection Customers. Each of those remaining Interconnection Customers shall have fifteen (15) Calendar Days to execute its SGIA and return it with evidence that milestones have been achieved pursuant to Section 11.3. If any one or more of those SGIAs are not executed and returned as provided, then the Transmission Provider shall continue to reissue SGIAs as provided for above until all issued SGIAs are executed and returned as provided, or until the last SGIA tendered was tendered to a single Interconnection Customer.

4.3 Transferability of Queue Position

An Interconnection Customer may transfer its Queue Position to another entity only if such entity acquires the specific Generating Facility identified in the Interconnection Request and the Point of Interconnection does not change.

4.4 Modifications

Interconnection Customer shall submit to Transmission Provider, in writing, modifications to any information provided in the Interconnection Request. Interconnection Customer shall retain its Queue Position if the modifications are in accordance with Sections 4.4.1, 4.4.2, or 4.4.5, or are determined not to be Material Modifications pursuant to Section 4.4.3.

Notwithstanding the above, during the course of the Interconnection Studies, either Interconnection Customer or Transmission Provider may identify changes to the planned interconnection that may improve the costs and benefits (including reliability) of the interconnection, and the ability of the proposed change to accommodate the Interconnection Request. To the extent the identified changes are acceptable to Transmission Provider and Interconnection Customer, such acceptance not to be unreasonably withheld, Transmission Provider shall modify the Point of Interconnection and/or configuration in accordance with such changes and proceed with any re-studies necessary to do so in accordance with Section 6.5, Section 7.6 and Section 8.7 as applicable and Interconnection Customer shall retain its Queue Position.

4.4.1 Permitted Modifications Before Combined Study Agreement

Prior to the return of the executed Combined Study Agreement to Transmission Provider, modifications permitted under this Section shall include specifically: (a) a decrease of up to 60 percent of electrical output (MW) of the proposed project; (b) modifying the technical parameters associated with the Generating Facility technology or the Generating Facility step-up transformer impedance characteristics; and (c) modifying the interconnection configuration. For plant increases, the incremental increase in plant output will go to the end of the queue for the purposes of cost allocation and study analysis.

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4.4.2 Permitted Modification After Interconnection System Impact Study

Permitted modifications before delivery of a notice authorizing the Transmission Provider to proceed with an Interconnection Facilities Study pursuant to Section 8.2 shall include specifically: (a) additional 15 percent decrease of electrical output (MW), and (b) Generating Facility technical parameters associated with modifications to Generating Facility technology and transformer impedances; provided, however, the incremental costs associated with those modifications are the responsibility of the requesting Interconnection Customer.

4.4.3 Request for Modification Evaluation

Prior to making any modification other than those specifically permitted by Sections 4.4.1, 4.4.2 and 4.4.5, Interconnection Customer may first request that Transmission Provider evaluate whether such modification is a Material Modification. In response to Interconnection Customer's request, Transmission Provider shall evaluate the proposed modifications prior to making them and inform Interconnection Customer in writing of whether the modifications would constitute a Material Modification. Any change to the Point of Interconnection, except those deemed acceptable under Sections 4.4.1, 6.1, 7.2 or so allowed elsewhere, shall constitute a Material Modification. Interconnection Customer may then withdraw the proposed modification or proceed with a new Interconnection Request for such modification.

4.4.4 Additional Studies for Modification Evaluation

Upon receipt of Interconnection Customer's request for modification permitted under this Section 4.4, Transmission Provider shall commence and perform any necessary additional studies as soon as practicable, but in no event shall Transmission Provider commence such studies later than thirty (30) Calendar Days after receiving notice of Interconnection Customer's request. Any additional studies resulting from such modification shall be done at Interconnection Customer's cost. Notwithstanding anything else in these SGIP, all time periods and deadlines provided for in these SGIP and falling

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after the date of receipt of such notice of request by Transmission Provider shall be extended by a period equal to the time period between receipt of such notice or request and the date on which all additional studies are completed.

4.4.5 Extensions of Commercial Operation Date

Extensions of less than three (3) cumulative years in the Commercial Operation Date of the Generating Facility to which the Interconnection Request relates are not material and should be handled through construction sequencing; provided, however, that extensions may necessitate a determination of whether the Generating Facility will retain its WECC accepted rating status and whether additional studies are required pursuant to the Applicable Reliability Standards.

5.0 Procedures for Interconnection Requests Submitted Prior to Effective Date of Standard Generator Interconnection Procedures

5.1 Queue Position for Pending Requests

- **5.1.1** If an Interconnection Customer has not executed an interconnection system impact study agreement with Transmission Provider as of the effective date of this SGIP, then all interconnection studies shall be processed in accordance with this SGIP.
- **5.1.2** If an Interconnection Customer has executed an interconnection system impact study agreement with Transmission Provider prior to the effective date of this SGIP, such interconnection study shall be completed in accordance with the terms of such agreement. With respect to any remaining studies for which an Interconnection Customer has not signed a study agreement prior to the effective date of the SGIP, Transmission Provider must offer Interconnection Customer the option of either continuing under Transmission Provider's existing interconnection Studies (for which it does not have a signed Interconnection Studies Agreement) in accordance with this SGIP.

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5.1.3 If an interconnection agreement has been executed before the effective date of the SGIP, then the interconnection agreement would be grandfathered.

5.2 Transition Period

Transmission Provider and Interconnection Customers with an outstanding request (i.e., an interconnection request for which an interconnection agreement has not been executed as of the effective date of this SGIP) for which an Interconnection Study must be completed pursuant to these SGIP shall transition such request to this SGIP within a reasonable period of time not to exceed sixty (60) Calendar Days. Any Interconnection Customer with an outstanding request as of the effective date of this SGIP may request a reasonable extension of any deadline, otherwise applicable, if necessary to avoid undue hardship or prejudice to its Interconnection Request. A reasonable extension shall be granted by Transmission Provider to the extent consistent with the intent and process provided for under this SGIP.

5.3 New Transmission Provider

If Transmission Provider transfers control of its Transmission System to a successor Transmission Provider during the period when an Interconnection Request is pending, the original Transmission Provider shall transfer to the successor Transmission Provider any amount of the deposit or payment with Interest thereon that exceeds the cost that it incurred to evaluate the request for interconnection. Any difference between such net amount and the deposit or payment required by this SGIP shall be paid by or refunded to the Interconnection Customer, as appropriate.

The original Transmission Provider shall coordinate with the successor Transmission Provider to complete any Interconnection Study, as appropriate, that the original Transmission Provider has begun but has not completed. If Transmission Provider has tendered a draft SGIA to Interconnection Customer but Interconnection Customer has not either executed the SGIA or requested the filing of an unexecuted SGIA with the

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Commission, unless otherwise provided, Interconnection Customer must complete negotiations with the successor Transmission Provider.

6.0 Interconnection Feasibility Study

6.1 Interconnection Feasibility Study Agreement

Subject to Attachment M-2, simultaneously with the acknowledgement of a valid Interconnection Request Transmission Provider shall provide to Interconnection Customer an Interconnection Feasibility Study Agreement in the form of Appendix 2. The Interconnection Feasibility Study Agreement shall specify that Interconnection Customer is responsible for the actual cost of the Interconnection Feasibility Study. Within five (5) Business Days following the Scoping Meeting Interconnection Customer shall specify for inclusion in the attachment to the Interconnection Feasibility Study Agreement the Point(s) of Interconnection and any reasonable alternative Point(s) of Interconnection. Within five (5) Business Days following Transmission Provider's receipt of such designation, Transmission Provider shall tender to Interconnection Customer the Interconnection Feasibility Study Agreement, which includes a good faith estimate of the cost for completing the Interconnection Feasibility Study. Interconnection Customer shall execute and deliver to Transmission Provider the Interconnection Feasibility Study Agreement along with a \$15,000 deposit no later than thirty (30) Calendar Days after its receipt.

Subject to Attachment M-2, if the Interconnection Feasibility Study uncovers any unexpected result(s) not contemplated during the Scoping Meeting, a substitute Point of Interconnection identified by either Interconnection Customer or Transmission Provider, and acceptable to the other, such acceptance not to be unreasonably withheld, will be substituted for the designated Point of Interconnection specified above without loss of Queue Position, and re-studies shall be completed pursuant to Section 6.5 as applicable.

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Subject to Attachment M-2, for the purpose of this Section 6.1, if Transmission Provider and Interconnection Customer cannot agree on the substituted Point of Interconnection, then Interconnection Customer may direct that one of the alternatives as specified in the Interconnection Feasibility Study Agreement, as specified pursuant to Section 3.3.4, shall be the substitute.

If Interconnection Customer and Transmission Provider agree to forgo the Interconnection Feasibility Study, Transmission Provider will initiate an Interconnection System Impact Study under Section 7 of this SGIP and apply the \$15,000 deposit towards the Interconnection System Impact Study.

6.2 Scope of Interconnection Feasibility Study

The Interconnection Feasibility Study shall preliminarily evaluate the feasibility of the proposed interconnection to the Transmission System.

Subject to Attachment M-2, the Interconnection Feasibility Study will consider the Base Case as well as all generating facilities (and with respect to (iii), any identified Network Upgrades) that, on the date the Interconnection Feasibility Study is commenced: (i) are directly interconnected to the Transmission System; (ii) are interconnected to Affected Systems and may have an impact on the Interconnection Request; (iii) have a pending higher queued Interconnection Request to interconnect to the Transmission System; and (iv) have no Queue Position but have executed an interconnection agreement or an unexecuted interconnection agreement has been filed with the Commission. The Interconnection Feasibility Study will consist of a power flow and short circuit analysis. The Interconnection Feasibility Study will provide a list of facilities and a non-binding good faith estimate of cost responsibility and a non-binding good faith estimated time to construct.

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6.3 Interconnection Feasibility Study Procedures

Transmission Provider shall utilize existing studies to the extent practicable when it performs the study. Subject to Attachment M-2, Transmission Provider shall use Reasonable Efforts to complete the Interconnection Feasibility Study no later than fortyfive (45) Calendar Days after Transmission Provider receives the fully executed Interconnection Feasibility Study Agreement. At the request of Interconnection Customer or at any time Transmission Provider determines that it will not meet the required time frame for completing the Interconnection Feasibility Study, Transmission Provider shall notify Interconnection Customer as to the schedule status of the Interconnection Feasibility Study. If Transmission Provider is unable to complete the Interconnection Feasibility Study within that time period, it shall notify Interconnection Customer and provide an estimated completion date with an explanation of the reasons why additional time is required. Upon request, Transmission Provider shall provide Interconnection Customer supporting documentation, workpapers and relevant power flow, short circuit and stability databases for the Interconnection Feasibility Study, subject to confidentiality arrangements consistent with Section 13.1.

6.4 Meeting with Transmission Provider

At Interconnection Customer's request, within ten (10) Business Days of providing an Interconnection Feasibility Study report to Interconnection Customer, Transmission Provider and Interconnection Customer shall meet to discuss the results of the Interconnection Feasibility Study.

6.5 Re-Study

If re-study of the Interconnection Feasibility Study is required due to a higher queued project dropping out of the queue, or a modification of a higher queued project subject to Section 4.4, or re-designation of the Point of Interconnection pursuant to Section 6.1 Transmission Provider shall notify Interconnection Customer in writing. Transmission Provider shall use Reasonable Efforts to complete such re-study no later than forty-five

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(45) Calendar Days from the date of the notice. Any cost of re-study shall be borne by the Interconnection Customer being re-studied.

7.0 Interconnection System Impact Study

7.1 Combined Study Agreement

Subject to Attachment M-2, unless otherwise agreed, pursuant to the Scoping Meeting provided in Section 3.3.4, simultaneously with the delivery of the Interconnection Feasibility Study to Interconnection Customer, Transmission Provider shall tender to Interconnection Customer a Combined Study Agreement. Within five (5) Business Days following the deadline established pursuant to these SGIP for the meeting, contemplated by Section 6.4, Transmission Provider shall provide to Interconnection Customer a non-binding good faith estimate of the cost and timeframe for completing the Interconnection System Impact Study.

7.2 Execution of Combined Study Agreement

Interconnection Customer shall execute and deliver the Combined Study Agreement to Transmission Provider no later than thirty (30) Calendar Days after its receipt along with demonstration of Site Control, and a \$75,000 deposit.

If Interconnection Customer does not provide all technical data required by the Combined Study Agreement when it delivers the executed Combined Study Agreement to Transmission Provider, Transmission Provider shall notify Interconnection Customer of the deficiency within five (5) Business Days of the receipt of the executed Combined Study Agreement and Interconnection Customer shall cure the deficiency within ten (10) Business Days of receipt of the notice, provided, however, such deficiency does not include failure to deliver the executed Combined Study Agreement or deposit. If the Interconnection System Impact Study uncovers any unexpected result(s) not contemplated during the Scoping Meeting and the Interconnection Feasibility Study, a substitute Point of Interconnection identified by either Interconnection Customer or

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Transmission Provider, and acceptable to the other, such acceptance not to be unreasonably withheld, will be substituted for the designated Point of Interconnection specified above without loss of Queue Position, and restudies shall be completed pursuant to Section 7.6 as applicable. For the purpose of this Section 7.2, if Transmission Provider and Interconnection Customer cannot agree on the substituted Point of Interconnection, then Interconnection Customer may direct that one of the alternatives as specified in the Interconnection Feasibility Study Agreement, as specified pursuant to Section 3.3.4, shall be the substitute.

7.3 Scope of Interconnection System Impact Study

The Interconnection System Impact Study shall evaluate the impact of the proposed interconnection on the reliability of the Transmission System. The Interconnection System Impact Study will consider the Base Case as well as all generating facilities (and with respect to (iii) below, any identified Network Upgrades associated with such higher queued interconnection) that, on the date the Interconnection System Impact Study is commenced: (i) are directly interconnected to the Transmission System; (ii) are interconnected to Affected Systems and may have an impact on the Interconnect to the Transmission System; and (iv) have no Queue Position but for which there is an executed interconnection agreement or an unexecuted interconnection System Impact Study will also consider all other Interconnection Requests to be studied concurrently pursuant to Section 4.2.

The Interconnection System Impact Study will consist of a short circuit analysis, a stability analysis, and a power flow analysis. The Interconnection System Impact Study will state the assumptions upon which it is based; state the results of the analyses; and provide the requirements or potential impediments to providing the requested Interconnection Service, including a preliminary indication of the cost and length of time that would be necessary to correct any problems identified in those analyses and

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implement the interconnection. The Interconnection System Impact Study will provide a list of facilities that are required as a result of the Interconnection Request and a nonbinding good faith estimate of cost responsibility (including any amounts that Interconnection Customer may have to pay, or security the Interconnection Customer may have to provide, pursuant to Article 11 of the SGIA) and a non-binding good faith estimated time to construct.

7.4 Interconnection System Impact Study Procedures

Transmission Provider shall coordinate the Interconnection System Impact Study with any Affected System that is affected by the Interconnection Request pursuant to Section 3.5 above. Transmission Provider shall utilize existing studies to the extent practicable when it performs the study. Transmission Provider shall use Reasonable Efforts to complete the Interconnection System Impact Study within ninety (90) Calendar Days after the receipt of the Combined Study Agreement or notification to proceed, study payment, and technical data. If Transmission Provider uses Clustering, Transmission Provider shall use Reasonable Efforts to deliver a completed Interconnection System Impact Study within ninety (90) Calendar Days after the close of the Queue Cluster Window.

At the request of Interconnection Customer or at any time Transmission Provider determines that it will not meet the required time frame for completing the Interconnection System Impact Study, Transmission Provider shall notify Interconnection Customer as to the schedule status of the Interconnection System Impact Study. If Transmission Provider is unable to complete the Interconnection System Impact Study within the time period, it shall notify Interconnection Customer and provide an estimated completion date with an explanation of the reasons why additional time is required. Upon request, Transmission Provider shall provide Interconnection Customer all supporting documentation, workpapers and relevant pre-Interconnection Request and post-Interconnection Request power flow, short circuit and stability databases for the

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Interconnection System Impact Study, subject to confidentiality arrangements consistent with Section 13.1.

7.5 Meeting with Transmission Provider

At Interconnection Customer's request, within ten (10) Business Days of providing an Interconnection System Impact Study report to Interconnection Customer, Transmission Provider and Interconnection Customer shall meet to discuss the results of the Interconnection System Impact Study.

7.6 Re-Study

If re-study of the Interconnection System Impact Study is required due to a higher queued project dropping out of the queue, a modification of a higher queued project subject to 4.4, or re-designation of the Point of Interconnection pursuant to Section 7.2 Transmission Provider shall notify Interconnection Customer in writing. Such re-study shall take no longer than sixty (60) Calendar Days from the date of notice. Any cost of re-study shall be borne by the Interconnection Customer being re-studied.

8.0 Interconnection Facilities Study

8.1 Interconnection Facilities Study

Within five (5) Business Days following the deadline established pursuant to these SGIP for the meeting contemplated by Section 7.5, Transmission Provider shall provide to Interconnection Customer a non-binding good faith estimate of the cost and timeframe for completing the Interconnection Facilities Study.

8.2 Authority to Proceed

Interconnection Customer shall notify Transmission Provider in writing of whether it wishes Transmission Provider to proceed with the Interconnection Facilities Study no later than ten (10) Calendar Days of receipt from Transmission Provider of the cost

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estimate contemplated by Section 8.1. If Interconnection Customer wishes Transmission Provider to proceed with the Interconnection Facilities Study, it shall provide Transmission Provider with a \$150,000 deposit and all additional technical data requested by Transmission Provider together with such notice.

If Interconnection Customer does not provide all requested additional technical data when it delivers such notice, Transmission Provider shall notify Interconnection Customer in writing of the deficiency within five (5) Business Days of receipt of Interconnection Customer's notice to proceed. Interconnection Customer shall cure the deficiency within ten (10) Business Days of receipt of Transmission Provider's notice.

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.

8.3 Scope of Interconnection Facilities Study

The Interconnection Facilities Study shall specify and estimate the cost of the equipment, engineering, procurement and construction work needed to implement the conclusions of the Interconnection System Impact Study in accordance with Good Utility Practice to physically and electrically connect the Generating Facility to the Transmission System. The Interconnection Facilities Study shall also identify the electrical switching configuration of the connection equipment, including, without limitation: the transformer, switchgear, meters, and other station equipment; the nature and estimated cost of any Transmission Provider's Interconnection; and an estimate of the time required to complete the construction and installation of such facilities.

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8.4 Interconnection Facilities Study Procedures

Transmission Provider shall coordinate the Interconnection Facilities Study with any Affected System pursuant to Section 3.5 above. Transmission Provider shall utilize existing studies to the extent practicable in performing 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 receipt of notice from the Interconnection Customer to proceed pursuant to Section 8.2: ninety (90) Calendar Days, with no more than a +/- 20 percent cost estimate contained in the report; or one hundred eighty (180) Calendar Days, if Interconnection Customer requests a +/- 10 percent cost estimate.

At the request of Interconnection Customer or at any time Transmission Provider determines that it will not meet the required time frame for completing the Interconnection Facilities Study, Transmission Provider shall notify Interconnection Customer as to the schedule status of the Interconnection Facilities Study. If Transmission Provider is unable to complete the Interconnection Facilities Study and issue a draft Interconnection Facilities Study report within the time required, it shall notify Interconnection Customer and provide an estimated completion date and an explanation of the reasons why additional time is required.

8.5 Meeting with Transmission Provider

At Interconnection Customer's request, within ten (10) Business Days of providing the draft Interconnection Facilities Study report to Interconnection Customer, Transmission Provider and Interconnection Customer shall meet to discuss the results of the Interconnection Facilities Study.

8.6 Comments

Interconnection Customer may, within thirty (30) Calendar Days after receipt of the draft Interconnection Facilities Study report, provide written comments to Transmission

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Provider, which Transmission Provider shall include in the final report. Transmission Provider shall issue the final Interconnection Facilities Study report within fifteen (15) Business Days of receiving Interconnection Customer's comments or promptly upon receiving Interconnection Customer's statement that it will not provide comments. Transmission Provider may reasonably extend such fifteen-day period upon notice to Interconnection Customer if Interconnection Customer's comments require Transmission Provider to perform additional analyses or make other significant modifications prior to the issuance of the final Interconnection Facilities Study report. Upon request, Transmission Provider shall provide Interconnection Customer supporting documentation, workpapers, and databases or data developed in the preparation of the Interconnection Facilities Study report, subject to confidentiality arrangements consistent with Section 13.1.

8.7 Re-Study

If re-study of the Interconnection Facilities Study is required due to a higher queued project dropping out of the queue or a modification of a higher queued project pursuant to Section 4.4, Transmission Provider shall so notify Interconnection Customer in writing. Such re-study shall take no longer than sixty (60) Calendar Days from the date of notice. Any cost of re-study shall be borne by the Interconnection Customer being re-studied.

9.0 Engineering and Procurement (E&P) Agreement

Prior to executing an SGIA, an Interconnection Customer may, in order to advance the implementation of its interconnection, request and Transmission Provider shall offer Interconnection Customer, an E&P Agreement that authorizes Transmission Provider to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection. However, Transmission Provider shall not be obligated to offer an E&P Agreement if Interconnection Customer is in Dispute Resolution as a result of an allegation that Interconnection Customer has failed to meet any milestones or comply with any prerequisites specified in other parts of the SGIP.

The E&P Agreement is an optional procedure and it will not alter the Interconnection Customer's Queue Position or In-Service Date.

The E&P Agreement shall provide for Interconnection Customer to pay the cost of all activities authorized by Interconnection Customer and to make advance payments or provide other satisfactory security for such costs. Interconnection Customer shall pay the cost of such authorized activities and any cancellation costs for equipment that is already ordered for its interconnection, which cannot be mitigated as hereafter described, whether or not such items or equipment later become unnecessary. If Interconnection Customer withdraws its Interconnection Request or either Party terminates the E&P Agreement, to the extent the equipment ordered can be cancelled under reasonable terms, Interconnection Customer shall be obligated to pay the associated cancellation costs. To the extent that the equipment cannot be reasonably cancelled, Transmission Provider may elect: (i) to take title to the equipment, in which event Transmission Provider shall refund Interconnection Customer any amounts paid by Interconnection Customer for such equipment and shall pay the cost of delivery of such equipment, or (ii) to transfer title to and deliver such equipment to Interconnection Customer, in which event Interconnection Customer shall pay any unpaid balance and cost of delivery of such equipment.

10.0 Optional Interconnection Study

10.1 Optional Interconnection Study Agreement

On or after the date when Interconnection Customer receives an Interconnection System Impact Study report, or at any time for Interconnection Customers subject to Clustering, Interconnection Customer may request, and Transmission Provider shall perform a reasonable number of Optional Interconnection Studies. The request shall describe the assumptions that Interconnection Customer wishes Transmission Provider to study within the scope described in Section 10.2. Within five (5) Business Days after receipt of a request for an Optional Interconnection Study, Transmission Provider shall provide to

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Interconnection Customer an Optional Interconnection Study Agreement in the form of Appendix 4.

The Optional Interconnection Study Agreement shall specify: (i) the technical data that Interconnection Customer must provide for each phase of the Optional Interconnection Study, (ii) Interconnection Customer's assumptions as to which Interconnection Requests with earlier queue priority dates will be excluded from the Optional Interconnection Study case and assumptions as to the type of Interconnection Service for Interconnection Requests remaining in the Optional Interconnection Study case, and (iii) Transmission Provider's estimate of the cost of the Optional Interconnection Study. To the extent known by Transmission Provider, such estimate shall include any costs expected to be incurred by any Affected System whose participation is necessary to complete the Optional Interconnection Study. Notwithstanding the above, Transmission Provider shall not be required as a result of an Optional Interconnection Study request to conduct any additional Interconnection Studies with respect to any other Interconnection Request.

Interconnection Customer shall execute the Optional Interconnection Study Agreement within ten (10) Business Days of receipt and deliver the Optional Interconnection Study Agreement, the technical data and a \$15,000 deposit to Transmission Provider.

10.2 Scope of Optional Interconnection Study

The Optional Interconnection Study will consist of a sensitivity analysis based on the assumptions specified by Interconnection Customer in the Optional Interconnection Study Agreement. The Optional Interconnection Study will also identify Transmission Provider's Interconnection Facilities and the Network Upgrades, and the estimated cost thereof, that may be required to provide transmission service or Interconnection Service based upon the results of the Optional Interconnection Study. The Optional Interconnection Study shall be performed solely for informational purposes. Transmission Provider shall use Reasonable Efforts to coordinate the study with any

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Affected Systems that may be affected by the types of Interconnection Services that are being studied. Transmission Provider shall utilize existing studies to the extent practicable in conducting the Optional Interconnection Study.

10.3 Optional Interconnection Study Procedures

The executed Optional Interconnection Study Agreement, the deposit, and technical and other data called for therein must be provided to Transmission Provider within ten (10) Business Days of Interconnection Customer receipt of the Optional Interconnection Study Agreement. Transmission Provider shall use Reasonable Efforts to complete the Optional Interconnection Study within a mutually agreed upon time period specified within the Optional Interconnection Study Agreement. If Transmission Provider is unable to complete the Optional Interconnection Study Agreement. If Transmission Provider is unable to complete the Optional Interconnection Study within such time period, it shall notify Interconnection Customer and provide an estimated completion date and an explanation of the reasons why additional time is required. Any difference between the study payment and the actual cost of the study shall be paid to Transmission Provider or refunded to Interconnection Customer, as appropriate. Upon request, Transmission Provider shall provide Interconnection Customer supporting documentation and workpapers and databases or data developed in the preparation of the Optional Interconnection Study, subject to confidentiality arrangements consistent with Section 13.1.

11.0 Standard Generator Interconnection Agreement (SGIA)

11.1 Tender

Interconnection Customer shall tender comments on the draft Interconnection Facilities Study report within thirty (30) Calendar Days of receipt of the report. Within thirty (30) Calendar Days after the comments are submitted, Transmission Provider shall tender a SGIA, together with draft appendices. Interconnection Customer shall return the completed draft appendices within thirty (30) Calendar Days.

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11.2 Negotiation

Notwithstanding Section 11.1, at the request of Interconnection Customer Transmission Provider shall begin negotiations with Interconnection Customer concerning appendices A through D to the SGIA at any time after Transmission Provider delivers the draft Interconnection Facilities Study report to Interconnection Customer pursuant to Section 8.4. Following such request, or where no such request is made, following receipt by Transmission Provider of the completed draft appendices to the SGIA from Interconnection Customer pursuant to Section 11.1, Transmission Provider and Interconnection Customer shall negotiate concerning any disputed provisions of appendices A through D to the SGIA for not more than sixty (60) Calendar Days after Transmission Provider's tender of the SGIA and draft appendices pursuant to Section 11.1. If Interconnection Customer determines that negotiations are at an impasse, it may request termination of the negotiations at any time after Transmission Provider's tender of the SGIA and draft appendices pursuant to Section 11.1. Transmission Provider shall provide to Interconnection Customer a final SGIA within fifteen (15) Business Days after the completion of the negotiation process. Unless otherwise agreed by the Parties, if Interconnection Customer has not executed a final SGIA, requested filing of an unexecuted SGIA with the Commission, or initiated Dispute Resolution procedures pursuant to Section 13.5, within thirty (30) Calendar Days of Transmission Provider's tender of a final SGIA, it shall be deemed to have withdrawn its Interconnection Request.

11.3 Execution and Filing

If Interconnection Customer executes a final SGIA, it shall execute two originals of the tendered final SGIA and return them to Transmission Provider. At the same time, Interconnection Customer also shall provide reasonable evidence that one or more of the following milestones in the development of the Generating Facility, at Interconnection Customer election, has been achieved: (i) the execution of a contract for the supply or transportation of fuel to the Generating Facility; (ii) the execution of a contract for the supply of cooling water to the Generating Facility; (iii) execution of a contract for the

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engineering for, procurement of major equipment for, or construction of, the Generating Facility; (iv) execution of a contract for the sale of electric energy or capacity from the Generating Facility; or (v) application for an air, water, or land use permit.

If Interconnection Customer requests in writing that Transmission Provider file with the Commission an SGIA in unexecuted form, Transmission Provider shall, as soon as practicable, but not later than ten (10) Business Days after receiving a request to file an unexecuted SGIA with the Commission, file an SGIA with Commission, together with its explanation of any matters as to which Interconnection Customer and Transmission Provider disagree and support for the costs that Transmission Provider proposes to charge to, or security that Transmission Provider proposes to require from, Interconnection Customer under the SGIA. An unexecuted SGIA should contain terms and conditions deemed appropriate by Transmission Provider for the Interconnection Request. If the Parties agree to proceed with design, procurement, and construction of facilities and upgrades under the agreed-upon terms of the unexecuted SGIA, they may proceed subject to the Commission ordering otherwise.

11.4 Commencement of Interconnection Activities

If Interconnection Customer executes the final SGIA, Transmission Provider and Interconnection Customer shall perform their respective obligations in accordance with the terms of the SGIA, subject to modification by the Commission. Upon submission of an unexecuted SGIA, Interconnection Customer and Transmission Provider shall promptly comply with the unexecuted SGIA, subject to modification by the Commission.

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12.0 Construction of Transmission Provider's Interconnection Facilities and Network Upgrades

12.1 Schedule

Transmission Provider and Interconnection Customer shall negotiate in good faith concerning a schedule for the construction of Transmission Provider's Interconnection Facilities and the Network Upgrades.

12.2 Construction Sequencing

12.2.1 General

In general, the In-Service Date of an Interconnection Customer seeking interconnection to the Transmission System will determine the sequence of construction of Network Upgrades.

12.2.2 Advance Construction of Network Upgrades that are an Obligation of an Entity Other Than Interconnection Customer

An Interconnection Customer with an SGIA, in order to maintain its In-Service Date, may request that Transmission Provider advance to the extent necessary the completion of Network Upgrades that: (i) were assumed in the Interconnection Studies for such Interconnection Customer, (ii) are necessary to support such In-Service Date, and (iii) would otherwise not be completed, pursuant to a contractual obligation of an entity other than Interconnection Customer that is seeking interconnection to the Transmission System, in time to support such In-Service Date. Upon such request, Transmission Provider will use Reasonable Efforts to advance the construction of such Network Upgrades to accommodate such request; provided that Interconnection Customer provides Transmission Provider security as contemplated by Attachment O of the Tariff for: (i) any associated expediting costs and (ii) the cost of such Network Upgrades.

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Transmission Provider will reduce the outstanding amount of the security provided by the Interconnection Customer for both the expediting costs and the cost of such Network Upgrades, in accordance with Attachment O of the Tariff. The entity that would have had a contractual obligation to provide security for such Network Upgrades had they not been expedited shall be obligated to provide security for the outstanding balance of the security provided by the Interconnection Customer for such Network Upgrades on the date that it would have been due had there been no request for advance construction. Upon receipt of security from that entity, Transmission Provider shall release the security provided by the Interconnection Customer for such Network Upgrades.

12.2.3 Advancing Construction of Network Upgrades that are Part of an Expansion Plan of Transmission Provider

An Interconnection Customer with an SGIA, in order to maintain its In-Service Date, may request that Transmission Provider advance to the extent necessary the completion of Network Upgrades that: (i) are necessary to support such In-Service Date and (ii) would otherwise not be completed, pursuant to an expansion plan of Transmission Provider, in time to support such In-Service Date. Upon such request, Transmission Provider will use Reasonable Efforts to advance the construction of such Network Upgrades to accommodate such request; provided that Interconnection Customer provides Transmission Provider security as contemplated by Attachment O of the Tariff for any associated expediting costs. Interconnection Customer may consolidate security for the expediting costs with other security in accordance with Attachment O.

12.2.4 Amended Interconnection System Impact Study

An Interconnection System Impact Study will be amended to determine the facilities necessary to support the requested In-Service Date. This amended study will include those transmission and Generating Facilities that are expected to be in service on or before the requested In-Service Date.

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13.0 Miscellaneous

13.1 Confidentiality

Confidential Information shall include, without limitation, all information relating to a Party's technology, research and development, business affairs, and pricing, and any information supplied by either of the Parties to the other prior to the execution of an SGIA.

Information is Confidential Information only if it is clearly designated or marked in writing as confidential on the face of the document, or, if the information is conveyed orally or by inspection, if the Party providing the information orally informs the Party receiving the information that the information is confidential.

If requested by either Party, the other Party shall provide in writing, the basis for asserting that the information referred to in this Article warrants confidential treatment, and the requesting Party may disclose such writing to the appropriate Governmental Authority. Each Party shall be responsible for the costs associated with affording confidential treatment to its information.

Notwithstanding the foregoing, if Transmission Provider performs study work using WECC data (power flow, stability, and disturbance monitoring data) for an Interconnection Customer that is not a member of WECC, Interconnection Customer may only look at the data at Transmission Provider's office, but shall not be permitted to have the data or a copy of the data, and only once Interconnection Customer has signed the WECC Non-member Confidentiality Agreement in accordance with the Applicable Reliability Coordinator policies.

Notwithstanding the foregoing, the release of Confidential Information shall be subject to Applicable Laws and Regulations and Applicable Reliability Standards.

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13.1.1 Scope

Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the other Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the other Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of the SGIA; or (6) is required, in accordance with Section 13.1.6, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise required to be disclosed by Applicable Laws and Regulations, or is necessary in any legal proceeding establishing rights and obligations under the SGIA. Information designated as Confidential Information will no longer be deemed confidential if the Party that designated the information as confidential notifies the other Party that it no longer is confidential.

13.1.2 Release of Confidential Information

Neither Party shall release or disclose Confidential Information to any other person, except to its Affiliates (limited by the Standards of Conduct requirements), employees, contractors, consultants, or to parties who may be or considering providing financing to or equity participation with Interconnection Customer, or to potential purchasers or assignees of Interconnection Customer, on a need-to-know basis in connection with these procedures, unless such person has first been advised of the confidentiality provisions of this Section 13.1 and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Section 13.1.

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13.1.3 Rights

Each Party retains all rights, title, and interest in the Confidential Information that each Party discloses to the other Party. The disclosure by each Party to the other Party of Confidential Information shall not be deemed a waiver by either Party or any other person or entity of the right to protect the Confidential Information from public disclosure.

13.1.4 No Warranties

By providing Confidential Information, neither Party makes any warranties or representations as to its accuracy or completeness. In addition, by supplying Confidential Information, neither Party obligates itself to provide any particular information or Confidential Information to the other Party nor to enter into any further agreements or proceed with any other relationship or joint venture.

13.1.5 Standard of Care

Each Party shall use at least the same standard of care to protect Confidential Information it receives as it uses to protect its own Confidential Information from unauthorized disclosure, publication or dissemination. Each Party may use Confidential Information solely to fulfill its obligations to the other Party under these procedures or its regulatory requirements.

13.1.6 Order of Disclosure

If a court or a Governmental Authority or entity with the right, power, and apparent authority to do so requests or requires either Party, by subpoena, oral deposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Party with prompt notice of such request(s) or requirement(s) so that the other Party may seek an appropriate protective order or waive compliance with the terms of the SGIA. Notwithstanding the absence of a protective order or waiver, the Party may disclose such Confidential Information which, in the opinion of its counsel, the Party is legally

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compelled to disclose. Each Party will use Reasonable Efforts to obtain reliable assurance that confidential treatment will be accorded any Confidential Information so furnished.

13.1.7 Remedies

The Parties agree that monetary damages would be inadequate to compensate a Party for the other Party's breach of its obligations under this Section 13.1. Each Party accordingly agrees that the other Party shall be entitled to equitable relief, by way of injunction or otherwise, if the first Party breaches or threatens to breach its obligations under this Section 13.1, which equitable relief shall be granted without bond or proof of damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the breach of this Section 13.1, but shall be in addition to all other remedies available at law or in equity. The Parties further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Section 13.1.

13.1.8 Disclosure to the Commission

Notwithstanding anything in this Section 13.1 to the contrary, if the Commission, during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to the SGIP, the Party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the Party must request that the information be treated as confidential and non-public by the Commission and that the information be withheld from public disclosure.

13.1.9 Subject to the exception in Section 13.1.8, any information that a Party claims is competitively sensitive, commercial or financial information (Confidential Information)

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shall not be disclosed by the other Party to any person not employed or retained by the other Party, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Party to be required to be disclosed in connection with a dispute between or among the Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the other Party, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this SGIP or as a transmission service provider or a Control Area operator including disclosing the Confidential Information to a subregional, regional or national reliability organization or planning group. The Party asserting confidentiality shall notify the other Party in writing of the information it claims is confidential. Prior to any disclosures of the other Party's Confidential Information under this subparagraph, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subparagraph, the disclosing Party agrees to promptly notify the other Party in writing and agrees to assert confidentiality and cooperate with the other Party in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

- **13.1.10** This Section 13.1 shall not apply to any information that was or is hereafter in the public domain (except as a result of a breach of this provision).
- **13.1.11** Transmission Provider shall, at Interconnection Customer's election, destroy, in a confidential manner, or return Confidential Information provided, at the time Confidential Information is no longer needed.

13.2 Delegation of Responsibility

Transmission Provider may use the services of contractors as it deems appropriate to perform its obligations under this SGIP.

Transmission Provider shall remain primarily liable to Interconnection Customer for the performance of such contractors and compliance with its obligations of this SGIP. The subcontractor shall keep all information provided confidential and shall use such

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information solely for the performance of such obligation for which it was provided and no other purpose.

13.3 Obligation for Study Costs

Transmission Provider shall charge and Interconnection Customer shall pay the actual costs of the Interconnection Studies. Any difference between the study deposit and the actual cost of the applicable Interconnection Study shall be paid by or refunded, except as otherwise provided herein, to Interconnection Customer or offset against the cost of any future Interconnection Studies associated with the applicable Interconnection Request prior to beginning of any such future Interconnection Studies. Any invoices for Interconnection Studies shall include a detailed and itemized accounting of the cost of each Interconnection Study. Interconnection Customer shall pay any such undisputed costs within thirty (30) Calendar Days of receipt of an invoice therefor. Transmission Provider shall not be obligated to perform or continue to perform any studies unless Interconnection Customer has paid all undisputed amounts in compliance herewith.

13.4 Third Parties Conducting Studies

If (i) at the time of the signing of an Interconnection Study agreement there is disagreement as to the estimated time to complete an Interconnection Study, (ii) Interconnection Customer receives notice pursuant to Sections 6.3, 7.4 or 8.4 that Transmission Provider will not complete an Interconnection Study within the applicable timeframe for such Interconnection Study, or (iii) Interconnection Customer receives neither the Interconnection Study nor a notice under Sections 6.3, 7.4 or 8.4 within the applicable timeframe for such Interconnection Study, then Interconnection Customer may require Transmission Provider to utilize a third party consultant reasonably acceptable to Interconnection Customer and Transmission Provider to perform such Interconnection Study under the direction of Transmission Provider. At other times, Transmission Provider may also utilize a third party consultant to perform such

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Interconnection Study, either in response to a general request of Interconnection Customer, or on its own volition.

In all cases, use of a third party consultant shall be in accord with Article 26 of the SGIA (Subcontractors) and limited to situations where Transmission Provider determines that doing so will help maintain or accelerate the study process for Interconnection Customer's pending Interconnection Request and not interfere with Transmission Provider's progress on Interconnection Studies for other pending Interconnection Requests. In cases where Interconnection Customer requests use of a third party consultant to perform such Interconnection Study, Interconnection Customer and Transmission Provider shall negotiate all of the pertinent terms and conditions, including selection through a request for proposal process where appropriate, reimbursement arrangements and the estimated study completion date and study review deadline. Transmission Provider shall convey all workpapers, data bases, study results and all other supporting documentation prepared to date with respect to the Interconnection Request as soon as practicable upon Interconnection Customer's request subject to the confidentiality provision in Section 13.1. In any case, such third party contract may be entered into with either Interconnection Customer or Transmission Provider at Transmission Provider's discretion. In the case of (iii) Interconnection Customer maintains its right to submit a claim to Dispute Resolution to recover the costs of such third party study. Such third party consultant shall be required to comply with this SGIP, Article 26 of the SGIA (Subcontractors), and the relevant provisions of the Tariff as would apply if Transmission Provider were to conduct the Interconnection Study and shall use the information provided to it solely for purposes of performing such services and for no other purposes. Transmission Provider shall cooperate with such third party consultant and Interconnection Customer to complete and issue the Interconnection Study in the shortest reasonable time.

ACCEPTED:

ORDER NO._____

13.5 Disputes

In the event either Party has a dispute, or asserts a claim, that arises out of or in connection with the other Party's failure to comply with these SGIP, such dispute or claim shall be resolved in accordance with Dispute Resolution. Notwithstanding anything else herein, no Party shall be liable to the other for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with these SGIP.

13.6 Notice

Unless otherwise provided in these SGIP, any notice, demand or request required or permitted to be given by either Party to the other and any instrument required or permitted to be tendered or delivered by either Party in writing to the other shall be effective only if given in writing, and may be so given by recognized national courier, or by depositing the same with the Canadian Postal Service with postage prepaid for delivery by certified or registered mail, addressed to the Party, or personally delivered to the Party, at the address for that Party's representative as set out in the Interconnection Request. Any notice, demand or request required or permitted to be given by either Party to the other and not required by these SGIP to be given in writing may be so given by telephone, facsimile or email to the numbers or addresses for the Party's representative as set out in the Interconnection by telephone, facsimile or email to the numbers or addresses for the Party's representative as set out in the Interconnection by telephone, facsimile or email to the numbers or addresses for the Party's representative as set out in the Interconnection Request.

APPENDIX 1 to SGIP

Interconnection Request for a Generating Facility

- 1. The undersigned Interconnection Customer submits this request to interconnect its Generating Facility with Transmission Provider's Transmission System pursuant to the Tariff. Capitalized terms used but not defined herein shall have the meanings given to them in the SGIP.
- 2. This Interconnection Request is for (check one):
 - _____ A proposed new Generating Facility.
 - _____ An increase in the generating capacity or a Material Modification of an existing Generating Facility.
- 3. The type of interconnection service requested (check one):
 - _____ Energy Resource Interconnection Service
 - _____ Network Resource Interconnection Service
- 4. _____ Check here only if Interconnection Customer requesting Network Resource Interconnection Service also seeks to have its Generating Facility studied for Energy Resource Interconnection Service.
- 5. Interconnection Customer provides the following information:
 - (a) Address or location or the proposed new Generating Facility site (to the extent known) or, in the case of an existing Generating Facility, the name and specific location of the existing Generating Facility;
 - (b) Maximum summer at _____ degrees C and winter at _____ degrees C megawatt electrical output of the proposed new Generating Facility or the amount of megawatt increase in the generating capacity of an existing Generating Facility;
 - (c) General description of the equipment configuration;

ACCEPTED:

ORDER NO.

- (d) Commercial Operation Date (Day, Month, and Year);
- Name, address, telephone number, fax number and e-mail address of Interconnection Customer's contact person;
- (f) Approximate location of the proposed Point of Interconnection (optional); and
- (g) Interconnection Customer Data (set forth in Attachment A)
- 6. Applicable deposit amount as specified in the SGIP.
- 7. Evidence of Site Control as specified in the SGIP (check one)
 - _____ Is attached to this Interconnection Request
 - _____ Will be provided at a later date in accordance with the SGIP
- 8. This Interconnection Request shall be submitted to the representative indicated below:

BC Hydro

Attention: <*>

Telephone: <*> Facsimile: <*> Email: <*>

9. Representative of Interconnection Customer to contact:

[To be completed by Interconnection Customer] Telephone: <*> Facsimile: <*> Email: <*>

10. This Interconnection Request is submitted by:

ACCEPTED:_____

Attachment A To Appendix 1 Interconnection Request

DATA REQUIREMENTS FOR GENERATOR INTERCONNECTION

Interconnection Customers must submit the applicable data submission form provided in the Transmission Provider's Business Practices identified to be submitted as Attachment A to Appendix 1 Interconnection Request. The data that the Transmission Provider may require in the data submission forms in order to assess the Interconnection Request is set out below. The definition and explanation of the data may be found in the Generator Interconnection Equipment Statement(s) and Technical Interconnection Requirements of the Transmission Provider's Business Practices.

1. Site Location and Point of Interconnection

All Interconnection Customers will be required to submit a site location map, which shall include all generating sites of a project, the point of interconnection (POI), and the transmission line(s) to connect the project into the system at POI. The locations of generating sites, new substations, or new taps on existing lines must also be shown on the map and located by latitude and longitude. On the site location map, the Interconnection Customer shall:

- (a) Identify the substation(s), if connecting to an existing BC Hydro substation(s), or
- (b) Identify the line by name (such as 2L1) as well as the location of the proposed interconnection, if connecting to an existing BC Hydro transmission line.

The Interconnection Customer will also be required to provide a site layout plan.

2. Electrical Data

The required electrical data must be submitted by a registered professional engineer in the APEGBC.

ACCEPTED:

2.1 One-Line Diagram

All Interconnection Customers will be required to provide a one-line diagram that includes major station equipment (such as generators, transformers, station load, breakers, disconnects, capacitors, reactors, surge arrestors, current transformers, voltage transformers, capacitive voltage transformers), equipment ratings, transformer configuration, generator configuration and grounding, and bus arrangement.

The Interconnection Customer will also be required to provide a protection one-line diagram showing metering and relaying.

2.2 Generator Data

If one or more generators are included, the following data for each different type of generator and generator step up transformer may be required to be provided by the Interconnection Customer. For wind turbine generators, models of all control schemes must be submitted in PSS/E and EMTP formats.

- (a) Generator General Specifications
 - 1. Energy source (e.g., hydro, thermal, wind, combined cycle.) and energy profile in a typical year, and/or typical daily pattern for wind.
 - 2. Number of rotating generators with power factor, MW and MVAR ratings.
 - 3. Number of turbines, combustion, steam, wind, hydro, etc.
 - 4. Maximum output in winter, spring and summer, MW.
 - 5. Maximum injected MW's at the POI.
 - 6. Station service load for auxiliaries, MW, MVAR.
 - 7. Station service connection plan.
- (b) Generator Data, Synchronous Machines
 The Transmission Provider may require the following data for each different generator assembly:
 - 1. Reactive capability, 'P-Q' curves;

ACCEPTED:_____

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- 2. Excitation 'Vee' curves;
- 3. Saturation and synchronous impedance curves;
- 4. Identifier (e.g., Generator unit number);
- 5. Number of similar generators;
- 6. Complex power, MVA;
- 7. Active power, MW;
- 8. Terminal voltage, kV;
- 9. Machine parameters:
 - a. Sb Power base (MVA) upon which machine data is specified;
 - b. H Total inertia constant of the generator and turbine, MWs/MVA;
 - c. Ra Armature resistance, pu;
 - d. Xd Direct axis unsaturated synchronous reactance, pu;
 - e. Xq Quadrature axis unsaturated synchronous reactance, pu;
 - f. X'd Direct axis unsaturated transient reactance, pu;
 - g. X'q Quadrature axis saturated and unsaturated transient reactance, pu;
 - h. X"d Direct axis saturated and unsaturated subtransient reactance, pu;
 - i. XIm Stator leakage reactance, pu;
 - j. T'do Direct axis transient open circuit time constant, seconds;
 - K. T'qo Quadrature axis transient open circuit time constant, seconds;
 - I. T"do Direct axis subtransient open circuit time constant, seconds;
 - m. T"qo Quadrature axis subtransient open circuit time constant, seconds;
 - n. S(1.0) Saturation factor at rated terminal voltage; and
 - o. S(1.2) Saturation factor at 1.2 per unit of rated terminal voltage;
- 10. Excitation system modeling information with reference to standard types as specified in PTI PSS/E model library:

ACCEPTED:_____

ORDER NO.

- a. Type (static, ac rotating, etc.);
- b. Maximum/Minimum dc current;
- c. Maximum/Minimum de voltage;
- d. Nameplate information;
- e. Block diagram with control parameter settings; and
- f. Power System Stabilizer (PSS) type and settings;
- 11. Speed governor information with detailed modeling information with reference to standard types as specified in PTI PSS/E model library for each turbine:
 - a. Turbine type (hydro, thermal, wind);
 - b. Total capacity, MW (available peak operation rating);
 - c. Number of stages;
 - d. Manufacturer and model, if known;
 - e. Frequency vs. time operational limits, seconds at Hz;
 - f. Maximum turbine ramping rates, MW/minute, ramp up and ramp down;
- (c) Generator Data, Asynchronous Machines

The Transmission Provider may require the following data for each different generator assembly:

- 1. Shunt reactive compensation devices for power factor correction with induction generators or converters:
 - a. Power Factor without compensation;
 - b. Power Factor with full compensation;
 - c. Reactive power of shunt compensation voltage, kVar; and
 - d. Type and model (if required) of shunt compensation device.
- 2. AC/DC Converter devices employed with certain types of induction motor installations or with DC sources.
 - a. Number of converters;
 - b. Nominal ac voltage, kV;

- c. Capability to supply or absorb reactive power, MVAR;
- d. Converter manufacturer, model name, number, version; and
- e. Rated/Limitation on Fault current contribution, kA.
- 3. Machine parameters:
 - a. Sb Power base (MVA) upon which machine data is specified;
 - b. H Total inertia constant of generator and turbine, MWs/ MVA;
 - c. Ra Armature resistance, pu;
 - d. Xd Direct axis saturated and unsaturated synchronous reactance, pu;
 - e. X'd Direct axis saturated and unsaturated transient reactance, pu;
 - f. X"d Direct axis saturated and unsaturated subtransient reactance, pu;
 - g. XI Stator leakage reactance, pu;
 - h. T'do Direct axis transient open circuit time constant, seconds;
 - i. T"do Direct axis subtransient open circuit time constant, seconds;
 - j. S(1.0) Saturation factor at rated terminal voltage, A/A;
 - k. S(1.2) Saturation factor at 1.2 per unit of rated terminal voltage, A/A;
 - I. Vt Voltage threshold for tripping, pu;
 - m. Vr Voltage at which reconnection is permitted, pu;
 - n. Tv Pickup time for voltage-based tripping, seconds;
 - o. Tvr Time delay for reconnection, seconds;
 - p. Ft Frequency threshold for tripping, Hz;
 - q. Tf Pickup time for frequency-based tripping, seconds;
 - r. Reactive power required at no load, MVAR; and
 - s. Reactive power required at full load, MVAR.
- 4. External Shunt Compensation:
 - a. Bus Voltage;

ACCEPTED:

- b. Number and rating of each shunt capacitor section; and
- c. Voltage/PF controller scheme description and time delays.

2.3 Load Information Requirements

The Transmission Provider may require the following information regarding the plant load:

- (a) Delivery voltage, kV;
- (b) Power factor;
- (c) Transformer data including high and low voltage levels and impedances.

2.4 Transformer Data

If one or more power transformers are included as part of the proposed connection, the Transmission Provider may require the following data for each unique transformer:

- (a) Transformer number or identifier;
- (b) Number of similar transformers;
- (c) Transformer type and number of windings, (e.g. two winding);
- (d) Transformer winding data. For a two winding transformer, only winding H and L data is required.
 - 1. For each winding, H, L, y: (y=tertiary):
 - a. Nominal voltage, kV; and
 - b. Configuration (Δ or Y) and Y winding connection (ungrounded, solid ground or impedance ground).
 - 2. Transformer MVA ratings:
 - a. Winding H, MVA;
 - b. Winding L, MVA; and
 - c. Winding y, MVA.
 - 3. Transformer impedances, positive and zero sequence:
 - a. Winding H to L, % X and R at MVA;

ACCEPTED:

- b. Winding H to Y, % X and R at MVA; and
- c. Winding L to Y, % X and R at MVA.
- 4. Transformer tap changer information:
 - a. No load or load;
 - b. Tap changer winding location, H, L, Y; and
 - c. Available taps.
- 5. Transformer cooling requirements if required from BC Hydro:
 - a. Load, amps; and
 - b. Voltage, single or three phase, volts.

2.5 Transmission Line / Cable Data

If a new transmission line or cable is to be included as part of the proposed connection, the Transmission Provider may require the following data:

- (a) Nominal operating voltage, kV;
- (b) Line length, km and routes shown in map;
- (c) Line capacity, amps at °C;
- (d) Overhead/underground construction including conductor type; and
- (e) Positive and zero sequence transmission line data in physical units:
 - 1. Series resistance, R Ω ;
 - 2. Series reactance, X Ω ; and
 - 3. Shunt susceptance, B μ S (or $\mu \Omega 1$).

3. Plant Data

The Transmission Provider may require the following information regarding the plant.

- (a) Plant designation;
- Maximum inject Power (Facility Interconnection Capacity) into the Transmission Provider system;
- (c) Contracted capacity to BC Hydro (if applicable);

ACCEPTED:_____

ORDER NO._____

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- (d) Total Plant generating capacity;
- (e) Total number of generators in the Plant;
- (f) Total number of generator transformers in the Plant;
- (g) Total Plant Load (MW);
- (h) Total Plant Load (MVar);
- (i) Total Plant Motor Load;
- (j) Total Plant Static Load;
- (k) Total Plant Static Load power factor;
- (I) Total Plant Reactive compensation;
- (m) Ground Grid resistance;
- (n) Plant restoration time immediately following a self restoring fault or upset on the transmission line;
- (o) Bus length from generation to interconnection station;
- (p) Line length from interconnection station to Transmission Provider's transmission line;
- (q) Tower number observed in the field and painted on tower leg;
- (r) Number of third party easements required for transmission lines;
- (s) Black Start Capability (yes/no);
- (t) Is the Generating Facility in the Transmission Provider's service area (yes/no);
 - 1. If no, provide name of Local Provider
- (u) Maximum Summer plant output;
- (v) Maximum Winter plant output;
- (w) Maximum Spring plant output.

ACCEPTED:

APPENDIX 2 to SGIP

Interconnection Feasibility Study Agreement

THIS AGREEMENT is made and entered	I into this	_ day of	_, 20	by and
between	, a		organ	ized and
existing under the laws of the Province of	f	, (Interc	connectio	on 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; and

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

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.

ACCEPTED:

- 2. Interconnection Customer elects and Transmission Provider shall cause to be performed an Interconnection Feasibility Study consistent with Section 6 of the SGIP.
- 3. The scope of the Interconnection Feasibility Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4. The Interconnection Feasibility Study shall be based on the technical information provided by Interconnection Customer in the Interconnection Request, as may be modified as the result of the Scoping Meeting. 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 Feasibility Study and as designated in accordance with Section 3.3.4 of the SGIP. If, after the designation of the Point of Interconnection pursuant to Section 3.3.4 of the SGIP, Interconnection Customer modifies its Interconnection Request pursuant to Section 4.4, the time to complete the Interconnection Feasibility Study may be extended.
- 5. The Interconnection Feasibility Study report shall provide the following information:
 - (a) preliminary identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;
 - (b) preliminary identification of any thermal overload or voltage limit violations resulting from the interconnection; and
 - (c) preliminary description and non-binding estimated cost of facilities required to interconnect the proposed or modified Generating Facility to the Transmission System and to address the identified short circuit and power flow issues.
- 6. Interconnection Customer shall provide a deposit of \$15,000 for the performance of the Interconnection Feasibility Study.

ACCEPTED:

ORDER NO._____

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

IN WITNESS WHEREOF, 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

y:
itle:
ate:
nsert name of Interconnection Customer]
y:
itle:
ate:

ACCEPTED:_____

Attachment A to Appendix 2 Interconnection Feasibility Study Agreement

ASSUMPTIONS USED IN CONDUCTING THE INTERCONNECTION FEASIBILITY STUDY

The Interconnection Feasibility Study will be based upon the information set forth in the Interconnection Request and agreed upon in the Scoping Meeting held on

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]

ACCEPTED:_____

Effective: 05 July 2010 OATT Attachment M-1 Appendix 3 Page 1

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

ACCEPTED:

ORDER NO.

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:
 - identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;
 - (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

ACCEPTED:

ORDER NO.

- (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.
- 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].

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.
- 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.
- If Interconnection Customer elects to proceed with an Interconnection Facilities Study consistent with Section 8.2 of the SGIP, Interconnection Customer shall provide a 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.

ACCEPTED:

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.

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.

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

Ву:	
Title:	
Date:	
[Insert name of Interconnection Customer]	
Ву:	
Title:	
Date:	

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]

ACCEPTED:

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:

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

Attachment C to Appendix 3 Combined Study Agreement

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?

What protocol does the control system or PLC use?

ACCEPTED:

ORDER NO.

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.

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

YesNo	Local provider:	
Please provide proposed	schedule dates:	
Begin Construction	Date:	

ORDER NO.

BC Hydro Rate Schedules

Rate Schedules Effective: 05 July 2010 OATT Attachment M-1 Appendix 3 Page 10

Generator step-up transformer	
receives back feed power	Date
Generation Testing	Date:
Commercial Operation	Date:

ACCEPTED:_____

ORDER NO._____

APPENDIX 4 to SGIP

Optional Interconnection 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 _____;

WHEREAS, Interconnection Customer is proposing to establish an interconnection with the Transmission System; and

WHEREAS, Interconnection Customer has submitted to Transmission Provider an Interconnection Request; and

WHEREAS, Interconnection Customer has further requested that Transmission Provider prepare an Optional Interconnection Study;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agree 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 Optional Interconnection Study consistent with Section 10 of the SGIP.

ACCEPTED:_____

ORDER NO.

- 3. The scope of the Optional Interconnection Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4. The Optional Interconnection Study shall be performed solely for informational purposes.
- 5. The Optional Interconnection Study report shall provide a sensitivity analysis based on the assumptions specified by Interconnection Customer in Attachment A to this Agreement. The Optional Interconnection Study will identify Transmission Provider's Interconnection Facilities and the Network Upgrades, and the estimated cost thereof, that may be required to provide transmission service or interconnection service based upon the assumptions specified by Interconnection Customer in Attachment A.
- Interconnection Customer shall provide a deposit of \$15,000 for the performance of the Optional Interconnection Study. Transmission Provider's good faith estimate for the time of completion of the Optional Interconnection Study is [insert date].

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

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

7. Miscellaneous. The Optional Interconnection 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, and 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.

ACCEPTED:

ORDER NO._____

IN WITNESS WHEREOF, 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

Ву:	
Title:	
Date:	
[Insert name of Interconnection Customer]	
Ву:	
Title:	
Date:	

ACCEPTED:_____

BC Hydro

Rate Schedules Effective: 05 July 2010 OATT Attachment M-1 Appendix 4 Page 4

> Attachment A to Appendix 4 Optional Interconnection Study Agreement

ASSUMPTIONS USED IN CONDUCTING THE OPTIONAL INTERCONNECTION STUDY

ACCEPTED:_____

ORDER NO._____

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APPENDIX 5 to SGIP

Standard Generator Interconnection Agreement (SGIA)

ACCEPTED:_____

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ACCEPTED:_____

ORDER NO._____

THIS STANDARD GENERATOR INTERCONNECTION AGREEMENT (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 British Columbia Crown corporation established and 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, Transmission Provider operates the Transmission System; and

WHEREAS, Interconnection Customer intends to own, lease and/or control and operate the Generating Facility identified as a Generating Facility in Appendix C to this Agreement; and,

WHEREAS, Interconnection Customer and Transmission Provider have agreed to enter into this Agreement for the purpose of interconnecting the Generating Facility with the Transmission System;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein, it is agreed:

When used in this Standard Generator Interconnection Agreement, terms with initial capitalization that are not defined in Article 1 shall have the meanings specified in the Article in which they are used or the Tariff.

ACCEPTED:_____

ORDER NO._____

Article 1. Definitions

Affected System shall mean an electric system other than the Transmission Provider's Transmission System that may be affected by the proposed interconnection.

Affiliate shall mean, with respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

Ancillary Services shall mean those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

Applicable Laws and Regulations shall mean all duly promulgated applicable federal, provincial and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority.

Applicable Reliability Standards shall mean the reliability standards and procedures adopted by the Commission in British Columbia, to the extent that those standards and procedures apply to the Interconnection Customer, and the Control Area of the Transmission System.

Base Case shall mean the base case power flow, short circuit, and stability data bases used for the Interconnection Studies.

Breach shall mean the failure of a Party to perform or observe any material term or condition of this Standard Generator Interconnection Agreement.

Breaching Party shall mean a Party that is in Breach.

ACCEPTED:

Business Day shall mean Monday through Friday, excluding Holidays.

Calendar Day shall mean any day including Saturday, Sunday or a Holiday.

Combined Study Agreement shall mean the Combined Study Agreement dated <*> between Interconnection Customer and Transmission Provider in respect of the Generating Facility.

Commercial Operation shall mean the status of a Generating Facility that has commenced generating electricity for sale, excluding electricity generated during Trial Operation.

Commercial Operation Date of a unit shall mean the date on which the Generating Facility commences Commercial Operation as confirmed by Interconnection Customer pursuant to Appendix D to this Standard Generator Interconnection Agreement.

Commission means the British Columbia Utilities Commission, or its successor.

Confidential Information shall mean any confidential, proprietary or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy or compilation relating to the present or planned business of a Party, which is designated as confidential by the Party supplying the information, whether conveyed orally, electronically, in writing, through inspection, or otherwise.

Control Area shall mean an electrical system or systems bounded by interconnection metering and telemetry, capable of controlling generation to maintain its interchange schedule with other Control Areas and contributing to frequency regulation of the interconnection. The Control Area is the Balancing Authority Area as defined in the Applicable Reliability Standards.

Default shall mean the failure of a Breaching Party to cure its Breach in accordance with Article 17 of this Standard Generator Interconnection Agreement.

ACCEPTED:

Dispute Resolution shall mean the procedure for resolution of a dispute between the Parties as set out in Appendix G to the SGIA.

Effective Date shall mean, the date on which this Standard Generator Interconnection Agreement becomes effective upon execution by the Parties subject to acceptance by the Commission (if applicable), or if filed unexecuted, upon the date specified by the Commission.

Emergency Condition shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of a Transmission Provider, is imminently likely (as determined in a nondiscriminatory manner) to cause a material adverse effect on the security of, or damage to Transmission Provider's Transmission System, Transmission Provider's Interconnection Facilities or the electric systems of others to which the Transmission Provider's Transmission System is directly connected; or (3) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided, that Interconnection Customer is not obligated by this Standard Generator Interconnection Agreement to possess black start capability.

Energy Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to connect its Generating Facility to the Transmission Provider's Transmission System to be eligible to deliver the Generating Facility's electric output using the existing firm or non-firm capacity of the Transmission Provider's Transmission System on an as available basis. Energy Resource Interconnection Service in and of itself does not convey transmission service.

Environmental Law shall mean Applicable Laws or Regulations relating to pollution or protection of the environment or natural resources.

ACCEPTED:

Force Majeure shall mean any act of God, labour disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include acts of negligence or intentional wrongdoing by the Party claiming Force Majeure.

Generating Facility shall mean Interconnection Customer's device for the production of electricity identified in Appendix C, but shall not include the Interconnection Customer's Interconnection Facilities.

Generating Facility Capacity shall mean the net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple energy production devices.

Good Utility Practice shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

Governmental Authority shall mean any federal, provincial, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include Interconnection Customer, Transmission Provider, or any Affiliate thereof.

ACCEPTED:

Hazardous Substances shall mean any chemicals, materials or substances defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "hazardous constituents," "restricted hazardous materials," "extremely hazardous substances," "toxic substances," "radioactive substances," "contaminants," "pollutants," "toxic pollutants" or words of similar meaning and regulatory effect under any applicable Environmental Law, or any other chemical, material or substance, exposure to which is prohibited, limited or regulated by any applicable Environmental Law.

Holiday shall mean a statutory holiday in British Columbia.

Initial Synchronization Date shall mean the date upon which the Generating Facility is initially synchronized and upon which Trial Operation begins.

In-Service Date shall mean the date upon which the Interconnection Customer reasonably expects it will be ready to begin use of the Transmission Provider's Interconnection Facilities to obtain back feed power.

Interconnection Customer's Interconnection Facilities shall mean all facilities and equipment, as identified in Appendix A of this Standard Generator Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Customer's Interconnection Facilities are sole use facilities.

Interconnection Facilities shall mean the Transmission Provider's Interconnection Facilities and the Interconnection Customer's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Facilities

ACCEPTED:

ORDER NO.

are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

Interconnection Facilities Study shall mean the Interconnection Facilities Study dated <*> in respect of the Generating Facility.

Interconnection Feasibility Study shall mean the Interconnection Feasibility Study dated <*> in respect of the Generating Facility.

Interconnection Request shall mean an Interconnection Customer's request, in the form of Appendix 1 to the Standard Generator Interconnection Procedures, in accordance with the Tariff, in respect of the Generating Facility.

Interconnection Service shall mean the service provided by the Transmission Provider associated with interconnecting the Interconnection Customer's Generating Facility to the Transmission Provider's Transmission System and enabling it to receive electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of this Standard Generator Interconnection Agreement and, if applicable, the Transmission Provider's Tariff.

Joint Operating Committee shall be a group made up of representatives from Interconnection Customers and the Transmission Provider to coordinate operating and technical considerations of Interconnection Service.

Loss shall mean any and all losses relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's performance, or non-performance of its obligations under this Standard Generator Interconnection Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnifying Party.

ACCEPTED:

Material Modification shall mean those modifications that have a material impact on the cost or timing of any Interconnection Request with a later queue priority date or that would affect the reliability or stability of the Transmission System.

Metering Equipment shall mean all metering equipment installed or to be installed pursuant to this Standard Generator Interconnection Agreement at the metering points specified in Appendix A, including but not limited to instrument transformers, MWhmeters, data acquisition equipment, transducers, remote terminal unit, communications equipment, phone lines, and fibre optics.

Network Customer shall have the meaning provided in the Tariff.

Network Resource shall have the meaning provided in the Tariff.

Network Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to integrate its Generating Facility with the Transmission Provider's Transmission System in the same manner as Network Resources. Network Resource Interconnection Service in and of itself does not convey transmission service.

Network Upgrades shall mean the additions, modifications, and upgrades to the Transmission Provider's Transmission System required at or beyond the Point of Interconnection to accommodate the interconnection of the Generating Facility to the Transmission Provider's Transmission System.

Operating Orders means those operating instructions, protocols and procedures developed by the Joint Operating Committee pursuant to Article 29.1.6.

Party shall mean Transmission Provider or Interconnection Customer, and **Parties** shall mean both of them.

Point of Change of Ownership shall mean the point, as set forth in Appendix A to this Standard Generator Interconnection Agreement, where the Interconnection Customer's

ACCEPTED:

Interconnection Facilities connect to the Transmission Provider's Interconnection Facilities.

Point of Interconnection shall mean the point, as set forth in Appendix A to this Standard Generator Interconnection Agreement, where the Interconnection Facilities connect to the Transmission Provider's Transmission System.

Reasonable Efforts shall mean, with respect to an action required to be attempted or taken by a Party under this Standard Generator Interconnection Agreement, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

Stand Alone Network Upgrades shall mean Network Upgrades that an Interconnection Customer may construct without affecting day-to-day operations of the Transmission System during their construction. Both the Transmission Provider and the Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify them in Appendix A to this Standard Generator Interconnection Agreement.

Standard Generator Interconnection Agreement (SGIA) shall mean the form of interconnection agreement applicable to an Interconnection Request pertaining to a Generating Facility, that is included in the Transmission Provider's Tariff.

Standard Generator Interconnection Procedures (SGIP) shall mean the interconnection procedures applicable to an Interconnection Request pertaining to a Generating Facility that are included in the Transmission Provider's Tariff.

System Protection Facilities shall mean the equipment, including necessary protection signal communications equipment, required to protect (1) the Transmission Provider's Transmission System from faults or other electrical disturbances occurring at the Generating Facility and (2) the Generating Facility from faults or other electrical system disturbances occurring on the Transmission Provider's Transmission System or on other

ACCEPTED:

ORDER NO._____

delivery systems or other generating systems to which the Transmission Provider's Transmission System is directly connected.

Tariff shall mean the Transmission Provider's Tariff through which open access transmission service and Interconnection Service are offered, as filed with the Commission, and as amended or supplemented from time to time, or any successor tariff.

Technical Interconnection Requirements means the "60 kV to 500 kV Interconnection Requirements for Power Generators" BC Hydro, as amended from time to time.

Transmission Provider's Interconnection Facilities (TPIF) shall mean all facilities and equipment owned, controlled or operated by the Transmission Provider from the Point of Change of Ownership to the Point of Interconnection as identified in Appendix A to this Standard Generator Interconnection Agreement, including any modifications, additions or upgrades to such facilities and equipment. Transmission Provider's Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

Transmission System shall mean the facilities owned, controlled or operated by the Transmission Provider that are used to provide transmission service under the Tariff.

Trial Operation shall mean the period during which Interconnection Customer is engaged in on-site test operations and commissioning of the Generating Facility prior to Commercial Operation.

ACCEPTED:

Article 2. Effective Date, Term and Termination

2.1 Effective Date

This SGIA shall become effective upon execution by the Parties subject to acceptance by the Commission (if applicable), or if filed unexecuted, upon the date specified by the Commission. Transmission Provider shall promptly file this SGIA with the Commission upon execution in accordance with Article 3.1, if required.

2.2 Term of Agreement

Subject to the provisions of Article 2.3, this SGIA shall remain in effect for a period of ten (10) years from the Effective Date or such other longer period as Interconnection Customer may request and shall be automatically renewed for each successive one-year period thereafter.

2.3 Termination Procedures

2.3.1 Written Notice

This SGIA may be terminated by Interconnection Customer after giving Transmission Provider ninety (90) Calendar Days advance written notice, or by Transmission Provider notifying the Commission after the Generating Facility permanently ceases Commercial Operation or fails to achieve Commercial Operation within three (3) years of the target date for Commercial Operation set out in Appendix B.

2.3.2 Default

Either Party may terminate this SGIA in accordance with Article 17.

2.3.3 Reserved

ACCEPTED:

2.3.4 Notwithstanding Articles 2.3.1 through 2.3.2, no termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination, including the filing with the Commission of a notice of termination of this SGIA, if required, which notice has been accepted for filing by the Commission.

2.4 Termination Costs

If a Party elects to terminate this Agreement pursuant to Article 2.3 above, each Party shall pay all costs incurred (including any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment) or charges assessed by the other Party, as of the date of the other Party's receipt of such notice of termination, that are the responsibility of the terminating Party under this SGIA. In the event of termination by a Party, the Parties shall use commercially Reasonable Efforts to mitigate the costs, damages and charges arising as a consequence of termination. Upon termination of this SGIA, unless otherwise ordered or approved by the Commission:

2.4.1 With respect to any portion of Transmission Provider's Interconnection Facilities that have not yet been constructed or installed, Transmission Provider shall to the extent possible and with Interconnection Customer's authorization cancel any pending orders of, or return, any materials or equipment for, or contracts for construction of, such facilities; provided that in the event Interconnection Customer elects not to authorize such cancellation, Interconnection Customer shall assume all payment obligations with respect to such materials, equipment, and contracts, and Transmission Provider shall deliver such material and equipment, and, if necessary, assign such contracts, to Interconnection Customer as soon as practicable, at Interconnection Customer's expense. To the extent that Interconnection Customer has already paid Transmission Provider for any or all such costs of materials or equipment not taken by Interconnection Customer, Transmission Provider shall promptly refund such amounts to Interconnection Customer, less any costs, including penalties incurred by Transmission Provider to cancel any pending orders of or return such materials, equipment, or contracts.

ACCEPTED:

ORDER NO.

If an Interconnection Customer terminates this SGIA, it shall be responsible for all costs incurred in association with that Interconnection Customer's interconnection, including any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment, and other expenses including any Network Upgrades for which Transmission Provider has incurred expenses and has not been reimbursed by Interconnection Customer.

- **2.4.2** Transmission Provider may, at its option, retain any portion of such materials, equipment, or facilities that Interconnection Customer chooses not to accept delivery of, in which case Transmission Provider shall be responsible for all costs associated with procuring such materials, equipment, or facilities.
- **2.4.3** With respect to any portion of the Interconnection Facilities, and any other facilities already installed or constructed pursuant to the terms of this SGIA, Interconnection Customer shall be responsible for all costs associated with the removal, relocation or other disposition or retirement of such materials, equipment, or facilities.

2.5 Disconnection

Upon termination of this SGIA, the Parties will take all appropriate steps to disconnect the Generating Facility from the Transmission System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this SGIA or such non-terminating Party otherwise is responsible for these costs under this SGIA.

2.6 Survival

This SGIA shall continue in effect after termination to the extent necessary to provide for final billings and payments and for costs incurred hereunder, including billings and payments pursuant to this SGIA; to permit the determination and enforcement of liability and indemnification obligations arising from acts or events that occurred while this SGIA was in effect; as provided in Article 11.4.2; and to permit each Party to have access to

ACCEPTED:

ORDER NO.

the lands of the other Party pursuant to this SGIA or other applicable agreements, to disconnect, remove or salvage its own facilities and equipment.

Article 3. Regulatory Filings

3.1 Filing

Transmission Provider shall file this SGIA (and any amendment hereto) with the appropriate Governmental Authority, if required. Interconnection Customer may request that any information so provided be subject to the confidentiality provisions of Article 22. If Interconnection Customer has executed this SGIA, or any amendment thereto, the Interconnection Customer shall reasonably cooperate with Transmission Provider with respect to such filing and to provide any information reasonably requested by Transmission Provider needed to comply with applicable regulatory requirements.

Article 4. Scope Of Service

4.1 Interconnection Product Options

Interconnection Customer has selected the following (checked) type of Interconnection Service:

4.1.1 Energy Resource Interconnection Service

4.1.1.1 The Product

Energy Resource Interconnection Service allows Interconnection Customer to connect the Generating Facility to the Transmission System and be eligible to deliver the Generating Facility's output using the existing firm or non-firm capacity of the Transmission System on an "as available" basis. To the extent Interconnection Customer wants to receive Energy Resource Interconnection Service, Transmission Provider shall construct facilities identified in Appendix A to this SGIA.

ACCEPTED:

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4.1.1.2 Transmission Delivery Service Implications

Under Energy Resource Interconnection Service, Interconnection Customer will be eligible to inject power from the Generating Facility into and deliver power across the interconnecting Transmission Provider's Transmission System on an "as available" basis up to the amount of MWs identified in the applicable stability and steady state studies to the extent the upgrades initially required to qualify for Energy Resource Interconnection Service have been constructed. No transmission delivery service from the Generating Facility is assured, but Interconnection Customer may obtain Point-to-Point Transmission Service, Network Integration Transmission Service, or be used for secondary network transmission service, pursuant to Transmission Provider's Tariff, up to the maximum output identified in the stability and steady state studies. In those instances, in order for Interconnection Customer to obtain the right to deliver or inject energy beyond the Generating Facility Point of Interconnection or to improve its ability to do so, transmission service must be obtained pursuant to the provisions of Transmission Provider's Tariff. The Interconnection Customer's ability to inject its Generating Facility output beyond the Point of Interconnection, therefore, will depend on the existing capacity of Transmission Provider's Transmission System at such time as a transmission service request is made that would accommodate such delivery. The provision of firm Point-to-Point Transmission Service or Network Integration Transmission Service may require the construction of additional Network Upgrades.

4.1.2 Network Resource Interconnection Service

4.1.2.1 The Product

Transmission Provider must conduct the necessary studies and construct the Network Upgrades needed to integrate the Generating Facility in the same manner as all Network Resources. To the extent Interconnection Customer wants to receive Network Resource Interconnection Service, Transmission Provider shall construct the facilities identified in Appendix A to this SGIA.

ACCEPTED:

4.1.2.2 Transmission Delivery Service Implications

Network Resource Interconnection Service allows Interconnection Customer's Generating Facility to be designated by any Network Customer under the Tariff on Transmission Provider's Transmission System as a Network Resource, up to the Generating Facility's full output, on the same basis as existing Network Resources interconnected to Transmission Provider's Transmission System, and to be studied as a Network Resource on the assumption that such a designation will occur. Although Network Resource Interconnection Service does not convey a reservation of transmission service, any Network Customer under the Tariff can utilize its network service under the Tariff to obtain delivery of energy from the Generating Facility in the same manner as it accesses other Network Resources. A Generating Facility receiving Network Resource Interconnection Service may also be used to provide Ancillary Services after technical studies and/or periodic analyses are performed with respect to the Generating Facility's ability to provide any applicable Ancillary Services, provided that such studies and analyses have been or would be required in connection with the provision of such Ancillary Services by any existing Network Resource. However, if an Interconnection Customer's Generating Facility has not been designated as a Network Resource by any load, it cannot be required to provide Ancillary Services except to the extent such requirements extend to all generating facilities that are similarly situated. The provision of Network Integration Transmission Service or firm Point-to-Point Transmission Service may require additional studies and the construction of additional upgrades. Because such studies and upgrades would be associated with a request for transmission service under the Tariff, cost responsibility for the studies and upgrades would be in accordance with Transmission Provider's Tariff for pricing transmission delivery services.

Network Resource Interconnection Service does not necessarily provide Interconnection Customer with the capability to physically deliver the output of its Generating Facility to any particular load on Transmission Provider's Transmission System without incurring congestion costs. In the event of transmission constraints on Transmission Provider's

ACCEPTED:

Transmission System, Interconnection Customer's Generating Facility shall be subject to the applicable congestion management procedures in Transmission Provider's Transmission System in the same manner as all other Network Resources.

There is no requirement either at the time of study or interconnection, or at any point in the future, that Interconnection Customer's Generating Facility be designated as a Network Resource by a Network Customer under the Tariff or that Interconnection Customer identify a specific buyer (or sink). To the extent a Network Customer does designate the Generating Facility as a Network Resource, it must do so pursuant to Transmission Provider's Tariff.

Once an Interconnection Customer satisfies the requirements for obtaining Network Resource Interconnection Service, any future transmission service request for delivery from the Generating Facility within Transmission Provider's Transmission System of any amount of capacity and/or energy, up to the amount initially studied, will not require that any additional studies be performed or that any further upgrades associated with such Generating Facility be undertaken, regardless of whether or not such Generating Facility is ever designated by a Network Customer as a Network Resource and regardless of changes in ownership of the Generating Facility. However, the reduction or elimination of congestion or redispatch costs may require additional studies and the construction of additional upgrades.

To the extent Interconnection Customer enters into an arrangement for long term transmission service for deliveries from the Generating Facility outside Transmission Provider's Transmission System, such request may require additional studies and upgrades in order for Transmission Provider to grant such request.

4.2 **Provision of Service**

Transmission Provider shall provide Interconnection Service for the Generating Facility at the Point of Interconnection.

ACCEPTED:

4.3 Performance Standards

Each Party shall perform all of its obligations under this SGIA in accordance with Applicable Laws and Regulations, Applicable Reliability Standards, and Good Utility Practice, and to the extent a Party is required or prevented or limited in taking any action by such regulations and standards, such Party shall not be deemed to be in Breach of this SGIA for its compliance therewith. If such Party is the Transmission Provider, then that Party shall amend the SGIA and submit the amendment to the Commission for approval.

4.4 No Transmission Service

The execution of this SGIA does not constitute a request for, nor the provision of, any transmission service under Transmission Provider's Tariff, and does not convey any right to deliver electricity to any specific customer or Point of Delivery.

4.5 Interconnection Customer Provided Services

The services provided by Interconnection Customer under this SGIA are set forth in Article 13.5.1. Interconnection Customer shall be paid for such services in accordance with Article 11.6.

Article 5. Interconnection Facilities Engineering, Procurements and Construction

5.1 Construction Timing

Unless otherwise mutually agreed to between the Parties, Interconnection Customer shall select the In-Service Date, Initial Synchronization Date, and target Commercial Operation Date. Such dates shall be set forth in Appendix B, Milestones.

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5.1.1 Reserved

5.1.2 Agreement on Dates

- 5.1.2.1 If the dates designated by Interconnection Customer are acceptable to Transmission Provider, Transmission Provider shall so notify Interconnection Customer within thirty (30) Calendar Days, and Transmission Provider shall design, procure, and construct Transmission Provider's Interconnection Facilities and Network Upgrades, using Reasonable Efforts to complete Transmission Provider's Interconnection Facilities and Network Upgrades by the dates set forth in Appendix B, Milestones. Transmission Provider shall not be required to undertake any action which is inconsistent with its standard safety practices, its material and equipment specifications, its design criteria and construction procedures, its labour agreements, and Applicable Laws and Regulations. In the event Transmission Provider's Interconnection Facilities and Network Upgrades by the specified dates, Transmission Provider shall promptly provide written notice to Interconnection Customer and shall undertake Reasonable Efforts to meet the earliest dates thereafter.
- 5.1.2.2 If the dates designated by Interconnection Customer are not acceptable to Transmission Provider, Transmission Provider shall so notify Interconnection Customer within thirty (30) Calendar Days, and unless the Parties agree otherwise, Interconnection Customer shall have the option to assume responsibility for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades by the dates specified in Article 5.1. Transmission Provider and Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify such Stand Alone Network Upgrades in Appendix A. Except for Stand Alone Network Upgrades, Interconnection Customer shall have no right to construct Network Upgrades under this option.

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5.1.2.3 If Interconnection Customer elects not to exercise its option under Article 5.1.2.2, Interconnection Customer shall so notify Transmission Provider within thirty (30) Calendar Days, and the Parties shall in good faith attempt to negotiate terms and conditions (including revisions of the specified dates, the provision of incentives or the procurement and construction of a portion of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades by Interconnection Customer) pursuant to which Transmission Provider is responsible for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Network Upgrades. If the Parties are unable to reach agreement on such terms and conditions, Transmission Provider shall assume responsibility for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Network Upgrades pursuant to Article 5.1.2.1.

5.2 General Conditions Applicable to Option to Build

If Interconnection Customer assumes responsibility for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades,

- Interconnection Customer shall engineer, procure equipment, and construct Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades (or portions thereof) using Good Utility Practice and using standards and specifications provided in advance by Transmission Provider;
- (2) Interconnection Customer's engineering, procurement and construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades shall comply with all Applicable Laws and Regulations to which Transmission Provider would be subject in the engineering, procurement or construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades;

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- Transmission Provider shall review and approve the engineering design,
 equipment acceptance tests, and the construction of Transmission Provider's
 Interconnection Facilities and Stand Alone Network Upgrades;
- prior to commencement of construction, Interconnection Customer shall provide to Transmission Provider a schedule for construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades, and shall promptly respond to requests for information from Transmission Provider;
- (5) at any time during construction, Transmission Provider shall have the right to gain unrestricted access to Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades and to conduct inspections of the same;
- (6) at any time during construction, should any phase of the engineering, equipment procurement, or construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades not meet the standards and specifications provided by Transmission Provider, Interconnection Customer shall be obligated to remedy deficiencies in that portion of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades;
- (7) Interconnection Customer shall indemnify Transmission Provider for claims arising from Interconnection Customer's construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades under the terms and procedures applicable to Article 18.1 Indemnity;
- Interconnection Customer shall transfer control of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades to Transmission Provider;
- Unless Parties otherwise agree, Interconnection Customer shall transfer ownership of Transmission Provider's Interconnection Facilities and Stand-Alone Network Upgrades to Transmission Provider or its designee;

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- (10) Transmission Provider shall approve and accept for operation and maintenance Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades to the extent engineered, procured, and constructed in accordance with this Article 5.2; and
- (11) Interconnection Customer shall deliver to Transmission Provider "as-built" drawings, information, and any other documents that are reasonably required by Transmission Provider to assure that the Interconnection Facilities and Stand-Alone Network Upgrades are built to the standards and specifications required by Transmission Provider.

5.3 Reserved

5.4 Power System Stabilizers

The Interconnection Customer shall procure, install, maintain and operate Power System Stabilizers in accordance with the Applicable Reliability Standards. Transmission Provider reserves the right to reasonably establish minimum acceptable settings for any installed Power System Stabilizers, subject to the design and operating limitations of the Generating Facility. If the Generating Facility's Power System Stabilizers are removed from service or not capable of automatic operation, Interconnection Customer shall immediately notify Transmission Provider's system operator, or its designated representative. The requirements of this paragraph shall not apply to wind generators.

5.5 Equipment Procurement

If responsibility for construction of Transmission Provider's Interconnection Facilities or Network Upgrades is to be borne by Transmission Provider, then Transmission Provider shall commence design of Transmission Provider's Interconnection Facilities or Network Upgrades and procure necessary equipment as soon as practicable after all of the following conditions are satisfied, unless the Parties otherwise agree in writing:

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- 5.5.1 Transmission Provider has completed the Interconnection Facilities Study pursuant to the Combined Study Agreement;
- 5.5.2 Transmission Provider has received written authorization to proceed with design and procurement from Interconnection Customer by the date specified in Appendix B, Milestones; and
- 5.5.3 Interconnection Customer has provided security to Transmission Provider in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.

5.6 Construction Commencement

Transmission Provider shall commence construction of Transmission Provider's Interconnection Facilities and Network Upgrades for which it is responsible as soon as practicable after the following additional conditions are satisfied:

- 5.6.1 Approval of the appropriate Governmental Authority has been obtained for any facilities requiring regulatory approval;
- 5.6.2 Necessary real property rights and rights-of-way have been obtained, to the extent required for the construction of a discrete aspect of Transmission Provider's Interconnection Facilities and Network Upgrades;
- 5.6.3 Transmission Provider has received written authorization to proceed with construction from Interconnection Customer by the date specified in Appendix B, Milestones; and
- 5.6.4 Interconnection Customer has provided security to Transmission Provider in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.

5.7 Work Progress

The Parties will keep each other advised periodically as to the progress of their respective design, procurement and construction efforts. Either Party may, at any time, request a progress report from the other Party. If, at any time, Interconnection Customer

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determines that the completion of Transmission Provider's Interconnection Facilities will not be required until after the specified In-Service Date, Interconnection Customer will provide written notice to Transmission Provider of such later date upon which the completion of Transmission Provider's Interconnection Facilities will be required.

5.8 Information Exchange

As soon as reasonably practicable after the Effective Date, the Parties shall exchange information regarding the design and compatibility of the Parties' Interconnection Facilities and compatibility of the Interconnection Facilities with Transmission Provider's Transmission System, and shall work diligently and in good faith to make any necessary design changes.

5.9 Limited Operation

If any of Transmission Provider's Interconnection Facilities or Network Upgrades are not reasonably expected to be completed prior to the Commercial Operation Date of the Generating Facility, Transmission Provider shall, upon the request and at the expense of Interconnection Customer, perform operating studies on a timely basis to determine the extent to which the Generating Facility and Interconnection Customer Interconnection Facilities may operate prior to the completion of Transmission Provider's Interconnection Facilities or Network Upgrades consistent with Applicable Laws and Regulations, Applicable Reliability Standards, Good Utility Practice, and this SGIA. Transmission Provider shall permit Interconnection Customer to operate the Generating Facility and Interconnection Customer Interconnection Section Section

5.10 Interconnection Customer's Interconnection Facilities (ICIF)

Interconnection Customer shall, at its expense, design, procure, construct, own and install the ICIF, as set forth in Appendix A, Interconnection Facilities and Network Upgrades.

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5.10.1 Interconnection Customer's Interconnection Facility Specifications

Interconnection Customer shall submit initial specifications for the ICIF, including System Protection Facilities, to Transmission Provider at least one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date; and final specifications for review and comment at least ninety (90) Calendar Days prior to the Initial Synchronization Date. Transmission Provider shall review such specifications to ensure that the ICIF are compatible with the technical specifications (including the Technical Interconnection Requirements), operational control, and safety requirements of Transmission Provider and comment on such specifications within thirty (30) Calendar Days of Interconnection Customer's submission. All specifications provided hereunder shall be deemed Confidential Information.

5.10.2 Transmission Provider's Review

Transmission Provider's review of Interconnection Customer's final specifications shall not be construed as confirming, endorsing, or providing a warranty as to the design, fitness, safety, durability or reliability of the Generating Facility, or the ICIF. Interconnection Customer shall make such changes to the ICIF as may reasonably be required by Transmission Provider, in accordance with Good Utility Practice, to ensure that the ICIF are compatible with the technical specifications (including the Technical Interconnection Requirements), operational control, and safety requirements of Transmission Provider.

5.10.3 ICIF Construction

The ICIF shall be designed and constructed in accordance with Good Utility Practice. Within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Parties agree on another mutually acceptable deadline, Interconnection Customer shall deliver to Transmission Provider "as-built" drawings, information and documents for the ICIF, such as: a one-line diagram, a site plan showing the Generating Facility and the ICIF, plan and elevation drawings showing the layout of the ICIF, a relay

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functional diagram, relaying AC and DC schematic wiring diagrams and relay settings for all facilities associated with Interconnection Customer's step-up transformers, the facilities connecting the Generating Facility to the step-up transformers and the ICIF, and the impedances (determined by factory tests) for the associated step-up transformers and the Generating Facility. The Interconnection Customer shall provide Transmission Provider specifications for the excitation system, automatic voltage regulator, Generating Facility control and protection settings, transformer tap settings, and communications, if applicable.

5.11 Transmission Provider's Interconnection Facilities Construction

Transmission Provider's Interconnection Facilities shall be designed and constructed in accordance with Good Utility Practice. Upon request, and at Interconnection Customer's cost, within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Parties agree on another mutually acceptable deadline, Transmission Provider shall deliver to Interconnection Customer the following "as-built" drawings, information and documents for Transmission Provider's Interconnection Facilities [include appropriate drawings and relay diagrams].

Transmission Provider will obtain control of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades upon completion of such facilities.

5.12 Access Rights

Upon reasonable notice and supervision by a Party, and subject to any required or necessary regulatory approvals, a Party (Granting Party) shall furnish at no cost to the other Party (Access Party) any rights of use, licenses, rights of way and easements with respect to lands owned or controlled by the Granting Party, its agents (if allowed under the applicable agency agreement), or any Affiliate, that are necessary to enable the Access Party to obtain ingress and egress to construct, operate, maintain, repair, test (or witness testing), inspect, replace or remove facilities and equipment to: (i) interconnect the Generating Facility with the Transmission System; (ii) operate and maintain the

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Generating Facility, the Interconnection Facilities and the Transmission System; and (iii) disconnect or remove the Access Party's facilities and equipment upon termination of this SGIA. In exercising such licenses, rights of way and easements, the Access Party shall not unreasonably disrupt or interfere with normal operation of the Granting Party's business and shall adhere to the safety rules and procedures established in advance, as may be changed from time to time, by the Granting Party and provided to the Access Party.

5.13 Lands of Other Property Owners

If any part of Transmission Provider's Interconnection Facilities and/or Network Upgrades is to be installed on property owned by persons other than Interconnection Customer or Transmission Provider, Transmission Provider shall at Interconnection Customer's expense use efforts, similar in nature and extent to those that it typically undertakes on its own behalf or on behalf of its Affiliates, and to the extent consistent with Applicable Laws and Regulations, to procure from such persons any rights of use, licenses, rights of way and easements that are necessary to construct, operate, maintain, test, inspect, replace or remove Transmission Provider's Interconnection Facilities and/or Network Upgrades upon such property.

5.14 Permits

Each Party shall be responsible for obtaining all permits, licenses and authorizations that are necessary for it to accomplish the matters it is obligated to complete hereunder in compliance with Applicable Laws and Regulations. Transmission Provider and Interconnection Customer shall cooperate with each other in good faith in obtaining any such permits, licenses and authorizations. With respect to this paragraph, Transmission Provider shall provide permitting assistance to Interconnection Customer comparable to that provided to Transmission Provider's own, or an Affiliate's, generation.

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5.15 Early Construction of Base Case Facilities

Interconnection Customer may request Transmission Provider to construct, and Transmission Provider shall construct, using Reasonable Efforts to accommodate Interconnection Customer's In-Service Date, all or any portion of any Network Upgrades required for Interconnection Customer to be interconnected to the Transmission System which were included in the Base Case for the Interconnection Facilities Study, and which also are required to be constructed for another Interconnection Customer, but where such construction is not scheduled to be completed in time to achieve Interconnection Customer's In-Service Date.

5.16 Suspension

Interconnection Customer reserves the right, upon written notice to Transmission Provider, to suspend at any time all work by Transmission Provider associated with the construction and installation of Transmission Provider's Interconnection Facilities and/or Network Upgrades required under this SGIA with the condition that Transmission System shall be left in a safe and reliable condition in accordance with Good Utility Practice and Transmission Provider's safety and reliability criteria. In such event, Interconnection Customer shall be responsible for all reasonable and necessary costs which Transmission Provider (i) has incurred pursuant to this SGIA prior to the suspension and (ii) incurs in suspending such work, including any costs incurred to perform such work as may be necessary to ensure the safety of persons and property and the integrity of the Transmission System during such suspension and, if applicable, any costs incurred in connection with the cancellation or suspension of material, equipment and labour contracts which Transmission Provider cannot reasonably avoid; provided, however, that prior to cancelling or suspending any such material, equipment or labour contract, Transmission Provider shall obtain Interconnection Customer's authorization to do so.

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Transmission Provider shall invoice Interconnection Customer for such costs, plus any applicable taxes, pursuant to Article 12 and shall use due diligence to minimize its costs. In the event Interconnection Customer suspends work by Transmission Provider required under this SGIA pursuant to this Article 5.16, and has not requested Transmission Provider to recommence the work required under this SGIA on or before the expiration of three (3) years following commencement of such suspension, this SGIA shall be deemed terminated. The three-year period shall begin on the date the suspension is requested, or the date of the written notice to Transmission Provider, if no effective date is specified.

5.17 Tax Indemnity

Interconnection Customer shall protect, indemnify and hold harmless Transmission Provider from the cost consequences of any current tax liability imposed against Transmission Provider as a result of payments or property transfers made by Interconnection Customer to Transmission Provider under this SGIA, as well as any interest and penalties, other than interest and penalties attributable to any delay caused by Transmission Provider.

5.18 Tax Status

Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this SGIA is intended to adversely affect Transmission Provider's tax exempt status.

5.19 Modification

5.19.1 General

Either Party may undertake modifications to its facilities. If a Party plans to undertake a modification that reasonably may be expected to affect the other Party's facilities, that Party shall provide to the other Party sufficient information regarding such modification so that the other Party may evaluate the potential impact of such modification prior to

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commencement of the work. Such information shall be deemed to be confidential hereunder and shall include information concerning the timing of such modifications and whether such modifications are expected to interrupt the flow of electricity from the Generating Facility. The Party desiring to perform such work shall provide the relevant drawings, plans, and specifications to the other Party at least ninety (90) Calendar Days in advance of the commencement of the work or such shorter period upon which the Parties may agree, which agreement shall not unreasonably be withheld, conditioned or delayed.

In the case of Generating Facility modifications that do not require Interconnection Customer to submit an Interconnection Request, Transmission Provider shall provide, within thirty (30) Calendar Days (or such other time as the Parties may agree), an estimate of any additional modifications to the Transmission System, Transmission Provider's Interconnection Facilities or Network Upgrades necessitated by such Interconnection Customer modification and a good faith estimate of the costs thereof.

5.19.2 Standards

Any additions, modifications, or replacements made to a Party's facilities shall be designed, constructed and operated in accordance with this SGIA and Good Utility Practice.

5.19.3 Modification Costs

Interconnection Customer shall not be directly assigned for the costs of any additions, modifications, or replacements that Transmission Provider makes to Transmission Provider's Interconnection Facilities or the Transmission System to facilitate the interconnection of a third party to Transmission Provider's Interconnection Facilities or the Transmission System, or to provide transmission service to a third party under Transmission Provider's Tariff. Interconnection Customer shall be responsible for the costs of any additions, modifications, or replacements to Interconnection Customer's Interconnection Facilities that may be necessary to maintain or upgrade such

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Interconnection Customer's Interconnection Facilities consistent with Applicable Laws and Regulations, Applicable Reliability Standards or Good Utility Practice.

- Article 6. Reserved
- Article 7. Reserved
- Article 8. Communications
- 8.1 Reserved
- 8.2 Reserved

8.3 No Annexation

Any and all equipment placed on the premises of a Party shall be and remain the property of the Party providing such equipment regardless of the mode and manner of annexation or attachment to real property, unless otherwise mutually agreed by the Parties.

Article 9. Operations

9.1 General

Each Party shall comply with the Applicable Reliability Standards. Each Party shall provide to the other Party all information that may reasonably be required by the other Party to comply with Applicable Laws and Regulations and Applicable Reliability Standards.

9.2 Reserved

9.3 Transmission Provider Obligations

Transmission Provider shall cause the Transmission System and Transmission Provider's Interconnection Facilities to be operated, maintained and controlled in a safe

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and reliable manner and in accordance with all Operating Orders and this SGIA. Transmission Provider may provide to Interconnection Customer, and Interconnection Customer will comply with, operating instructions consistent with this SGIA and Transmission Provider's operating protocols and procedures as they may change from time to time. Transmission Provider will consider changes to its operating protocols and procedures proposed by Interconnection Customer.

9.4 Interconnection Customer Obligations

Interconnection Customer shall at its own expense operate, maintain and control the Generating Facility and Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this SGIA and the Technical Interconnection Requirements. Interconnection Customer shall operate the Generating Facility and Interconnection Customer's Interconnection Facilities in accordance with all Operating Orders and applicable requirements of the Control Area of which it is part, as such requirements are set forth in Appendix C, Interconnection Details, of this SGIA. Appendix C, Interconnection Details, will be modified to reflect changes to the requirements as they may change from time to time. Either Party may request that the other Party provide copies of the requirements set forth in Appendix C, Interconnection Details, of this SGIA.

9.5 Start-Up and Synchronization

Consistent with the Parties' mutually acceptable procedures, Interconnection Customer is responsible for the proper synchronization of the Generating Facility to Transmission Provider's Transmission System.

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9.6 Reserved

9.7 Outages and Interruptions

9.7.1 Outages

9.7.1.1 Outage Authority and Coordination

In accordance with Good Utility Practice and in coordination with the other Party, the Interconnection Customer may remove the Interconnection Customer's Interconnection Facilities, and the Transmission Provider may remove the Transmission Provider's Interconnection Facilities or any part of the Transmission System, from service that may impact the other Party's facilities as necessary to perform maintenance or testing or to install or replace equipment. Absent an Emergency Condition, the Party scheduling a removal of such facility(ies) from service will use Reasonable Efforts to schedule such removal on a date and time mutually acceptable to the Parties. In all circumstances any Party planning to remove such facility(ies) from service shall use Reasonable Efforts to minimize the effect on the other Party of such removal. Neither Party shall be liable to the other for damages of any kind in connection with any such outage.

9.7.1.2 Outage Schedules

Transmission Provider shall post scheduled outages of its transmission facilities on the OASIS. Interconnection Customer shall submit its planned maintenance schedules for the Generating Facility to Transmission Provider for a minimum of a rolling twenty-four month period. Interconnection Customer shall update its planned maintenance schedules as necessary. Transmission Provider may request Interconnection Customer to reschedule its maintenance as necessary to maintain the reliability of the Transmission System; provided, however, adequacy of generation supply shall not be a criterion in determining Transmission System reliability. Transmission Provider shall compensate Interconnection Customer for any additional direct costs that Interconnection Customer incurs as a result of having to reschedule maintenance,

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including any additional overtime, breaking of maintenance contracts or other costs above and beyond the cost Interconnection Customer would have incurred absent Transmission Provider's request to reschedule maintenance. Interconnection Customer will not be eligible to receive compensation, if during the twelve (12) months prior to the date of the scheduled maintenance, Interconnection Customer had modified its schedule of maintenance activities.

9.7.1.3 Outage Restoration

If an outage of a Party's facility(ies) aversely affects the other Party's operations or facilities, the Party that owns or controls the facility(ies) that is out of service shall use Reasonable Efforts to promptly restore such facility(ies) to a normal operating condition consistent with the nature of the outage. The Party that owns or controls the facility that is out of service shall provide the other Party, to the extent such information is known, information on the nature of the Emergency Condition, an estimated time of restoration, and any corrective actions required. Initial verbal notice shall be followed up as soon as practicable with written notice explaining the nature of the outage.

9.7.2 Interruption of Service

If required by Good Utility Practice to do so, Transmission Provider may require Interconnection Customer to interrupt or reduce deliveries of electricity if such delivery of electricity could adversely affect Transmission Provider's ability to perform such activities as are necessary to safely and reliably operate and maintain the Transmission System. The following provisions shall apply to any interruption or reduction permitted under this Article 9.7.2:

9.7.2.1 The interruption or reduction shall continue only for so long as reasonably necessary under Good Utility Practice;

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- 9.7.2.2 Any such interruption or reduction shall be made on an equitable, non-discriminatory basis with respect to all generating facilities directly connected to the Transmission System;
- 9.7.2.3 When the interruption or reduction must be made under circumstances which do not allow for advance notice, Transmission Provider shall notify Interconnection Customer by telephone as soon as practicable of the reasons for the curtailment, interruption, or reduction, and, if known, its expected duration. Telephone notification shall be followed by written notification as soon as practicable;
- 9.7.2.4 Except during the existence of an Emergency Condition, during which the interruption or reduction can be scheduled without advance notice, Transmission Provider shall notify Interconnection Customer in advance regarding the timing of such scheduling and further notify Interconnection Customer of the expected duration. Transmission Provider shall coordinate with Interconnection Customer using Good Utility Practice to schedule the interruption or reduction during periods of least impact to Interconnection Customer and Transmission Provider;
- 9.7.2.5 The Parties shall cooperate and coordinate with each other to the extent necessary in order to restore the Generating Facility, Interconnection Facilities, and the Transmission System to their normal operating state, consistent with system conditions and Good Utility Practice.
- 9.7.2.6 Neither Party shall be liable to the other for damages of any kind in connection with any such curtailment, interruption or reduction.

9.8 Switching and Tagging Rules

Each Party shall provide the other Party a copy of its switching and tagging rules that are applicable to the other Party's activities. Such switching and tagging rules shall be developed on a non-discriminatory basis. The Parties shall comply with applicable

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switching and tagging rules, as amended from time to time, in obtaining clearances for work or for switching operations on equipment.

9.9 Use of Interconnection Facilities by Third Parties

9.9.1 Purpose of Interconnection Facility

Except as may be required by Applicable Laws and Regulations, or as otherwise agreed to among the Parties, the Interconnection Facilities shall be constructed for the sole purpose of interconnecting the Generating Facility to the Transmission System and shall be used for no other purpose.

9.9.2 Third Party Users

If required by Applicable Laws and Regulations or if the Parties mutually agree, such agreement not to be unreasonably withheld, to allow one or more third parties to use Transmission Provider's Interconnection Facilities, or any part thereof, Interconnection Customer will be entitled to compensation for the capital expenses it incurred in connection with the Transmission Provider's Interconnection Facilities from all third party users based upon the pro rata use of the Transmission Provider's Interconnection Facilities by all third party users and Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually-agreed upon methodology. In addition, cost responsibility for ongoing costs, including operation and maintenance costs associated with the Transmission Provider's Interconnection Facilities, will be allocated between Interconnection Customer and any third party users based upon the pro rata use of the Interconnection Facilities by all third party users, and Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually agreed upon methodology. If the issue of such compensation or allocation cannot be resolved through such negotiations, it shall be submitted to the Commission for resolution.

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9.10 Disturbance Analysis Data Exchange

The Parties will cooperate with one another in the analysis of disturbances to either the Generating Facility or Transmission Provider's Transmission System by gathering and providing access to any information relating to any disturbance, including information from oscillography, protective relay targets, breaker operations and sequence of events records, and any disturbance information required by Good Utility Practice.

Article 10. Maintenance

10.1 Transmission Provider Obligations

Transmission Provider shall maintain the Transmission System and Transmission Provider's Interconnection Facilities in a safe and reliable manner and in accordance with this SGIA.

10.2 Interconnection Customer Obligations

Interconnection Customer shall maintain the Generating Facility and Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this SGIA.

10.3 Coordination

The Parties shall confer regularly to coordinate the planning, scheduling and performance of preventive and corrective maintenance on the Generating Facility and the Interconnection Facilities.

10.4 Secondary Systems

Each Party shall cooperate with the other in the inspection, maintenance, and testing of control or power circuits that operate below 600 volts, AC or DC, including, but not limited to, any hardware, control or protective devices, cables, conductors, electric raceways, secondary equipment panels, transducers, batteries, chargers, and voltage

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and current transformers that directly affect the operation of a Party's facilities and equipment which may reasonably be expected to impact the other Party. Each Party shall provide advance notice to the other Party before undertaking any work on such circuits, especially on electrical circuits involving circuit breaker trip and close contacts, current transformers, or potential transformers.

10.5 Operating and Maintenance Expenses

Subject to the provisions herein addressing the use of facilities by others, and except for operations and maintenance expenses associated with modifications made for providing interconnection or transmission service to a third party and such third party pays for such expenses, Interconnection Customer shall be responsible for all reasonable expenses including overheads, associated with: (1) owning, operating, maintaining, repairing, and replacing Interconnection Customer's Interconnection Facilities; and (2) operation, maintenance, repair and replacement of Transmission Provider's Interconnection Facilities.

Article 11. Performance Obligation

11.1 Interconnection Customer Interconnection Facilities

Interconnection Customer shall design, procure, construct, install, own and/or control Interconnection Customer Interconnection Facilities described in Appendix A, Interconnection Facilities and Network Upgrades, at its sole expense.

11.2 Transmission Provider's Interconnection Facilities

Transmission Provider shall design, procure, construct, install, own and/or control Transmission Provider's Interconnection Facilities described in Appendix A, Interconnection Facilities and Network Upgrades, at the sole expense of the Interconnection Customer and Interconnection Customer shall provide security for the costs of such TPIF in accordance with Article 11.5 of this Agreement.

11.3 Network Upgrades

Transmission Provider shall design, procure, construct, install, and own the Network Upgrades described in Appendix A, Interconnection Facilities and Network Upgrades. Transmission Provider shall fund the costs for the Network Upgrades and Interconnection Customer shall provide security for the costs of such Network Upgrades in accordance with Article 11.5 of this Agreement.

11.3.1 On the Commercial Operation Date, Interconnection Customer shall also provide security in accordance with Article 11.5 of this Agreement for any amounts that Transmission Provider is obligated to pay to third parties in accordance with provisions in other Standard Generator Interconnection Agreements similar to Article 11.4.2 of this Agreement as a result of the Generating Facility's use of network upgrades funded by such third parties.

11.4 Credits and Repayments

11.4.1 Reserved

11.4.2 Repayment on Failure to Achieve Commercial Operation

If the Generating Facility fails to achieve Commercial Operation, this Agreement is terminated, and another generating facility subsequently makes use of the Network Upgrades constructed pursuant to this Agreement, Transmission Provider shall at that time reimburse Interconnection Customer for the amounts collected on the security provided by Interconnection Customer pursuant to Section III.D.(b) and Section III.D.(c) of Attachment O of the Tariff, for those Network Upgrades used by the other generating facility, as reasonably determined by BC Hydro. This Article 11.4.2 shall survive the termination of this Agreement.

ACCEPTED:

11.4.3 Deferral Credits

Where Interconnection Customer satisfies the eligibility criteria set out in Attachment N to the Tariff, Interconnection Customer shall, in addition to any payments provided for in Article 11.4.2, be entitled to Deferral Credits against the non-usage sensitive portion of transmission charges as provided for in Attachment N to the Tariff.

11.4.4 Other Rights

Notwithstanding any other provision of this SGIA, nothing herein shall be construed as relinquishing or foreclosing any rights, including but not limited to firm transmission rights, capacity rights, transmission congestion rights, or transmission credits, that Interconnection Customer, shall be entitled to, now or in the future under any other agreement or tariff as a result of, or otherwise associated with, the transmission capacity, if any, created by the Network Upgrades, including the right to obtain cash reimbursements or transmission credits for transmission service that is not associated with the Generating Facility.

11.5 **Provision of Security**

At least thirty (30) Calendar Days prior to the commencement of the design, procurement, installation, or construction of a discrete portion of Transmission Provider's Interconnection Facilities or the Network Upgrades, Interconnection Customer shall provide Transmission Provider a standby irrevocable letter of credit or other form of security that is reasonably acceptable to Transmission Provider and otherwise meets the requirements of Attachment O to the Tariff. Such security shall be granted in favour of Transmission Provider. The security shall be in an amount equal to the amount required by Article 11.3.1 of this Agreement plus an amount sufficient to cover the costs for designing, constructing, procuring and installing the applicable portion of the Network Upgrades and the Transmission Provider's Interconnection Facilities plus in respect of security for the TPIF taxes that would apply when Interconnection Customer is invoiced by Transmission Provider for such costs. The security for the TPIF shall be reduced from

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time to time to the extent the amount exceeds the Transmission Provider's good faith estimate of the remaining costs to complete the applicable portion of Transmission Provider's Interconnection Facilities plus taxes that would apply when Interconnection Customer is invoiced by Transmission Provider for such remaining costs.

11.6 Interconnection Customer Compensation

If Transmission Provider requests or directs Interconnection Customer to provide a service pursuant to Article 13.5.1 of this SGIA, Transmission Provider shall compensate Interconnection Customer in accordance with Interconnection Customer's applicable Commission-approved rate schedule in effect. Interconnection Customer shall serve Transmission Provider with any filing of a proposed rate schedule at the time of such filing with the Commission. To the extent that no rate schedule is in effect at the time the Interconnection Customer is required to provide or absorb any reactive power under this SGIA, Transmission Provider agrees to compensate Interconnection Customer in such amount as would have been due Interconnection Customer had the rate schedule been in effect at the time service commenced; provided, however, that such rate schedule must be filed at the Commission or other appropriate Governmental Authority within sixty (60) Calendar Days of the commencement of service.

11.6.1 Interconnection Customer Compensation for Actions During Emergency Condition

Transmission Provider shall compensate Interconnection Customer for its provision of real and reactive power and other Emergency Condition services that Interconnection Customer provides to support the Transmission System during an Emergency Condition in accordance with Article 11.6.

ACCEPTED:

Article 12. Invoice

12.1 General

Each Party may submit to the other Party, on a monthly basis, invoices of amounts due for the preceding month, plus any applicable taxes. Each invoice shall state the month to which the invoice applies and fully describe the services and equipment provided. The Parties may discharge mutual debts and payment obligations due and owing to each other on the same date through netting, in which case all amounts a Party owes to the other Party under this SGIA, including interest payments or credits, shall be netted so that only the net amount remaining due shall be paid by the owing Party.

12.2 Final Invoice

Within six months after completion of the construction of Transmission Provider's Interconnection Facilities, Transmission Provider shall provide an invoice of the final cost of the construction of Transmission Provider's Interconnection Facilities, plus any applicable taxes, and shall set forth such costs in sufficient detail to enable Interconnection Customer to compare the actual costs with the estimates and to ascertain deviations, if any, from the cost estimates. Transmission Provider shall refund to Interconnection Customer any amount by which the actual payment by Interconnection Customer for estimated costs exceeds the actual costs of construction within thirty (30) Calendar Days of the issuance of such final construction invoice.

12.3 Payment Invoices

Payment Invoices shall be rendered to the paying Party at the address specified in Appendix E. The Party receiving the invoice shall pay the invoice within thirty (30) Calendar Days of receipt. All payments shall be made in immediately available funds payable to the other Party, or by wire transfer to a bank named and account designated by the invoicing Party. Payment of invoices by either Party will not constitute a waiver of any rights or claims either Party may have under this SGIA.

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12.4 Disputes

In the event of a billing dispute between Transmission Provider and Interconnection Customer, Transmission Provider shall continue to provide Interconnection Service under this SGIA as long as Interconnection Customer: (i) continues to make all payments not in dispute; and (ii) pays to Transmission Provider or into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If Interconnection Customer fails to meet these two requirements for continuation of service, then Transmission Provider may provide notice to Interconnection Customer of a Default pursuant to Article 17. Within thirty (30) Calendar Days after the resolution of the dispute, the Party that owes money to the other Party shall pay the amount due with interest which shall be calculated in accordance with the provisions in the Tariff.

Article 13. Emergencies

13.1 Definition

"Emergency Condition" shall mean a condition or situation: (i) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (ii) that, in the case of Transmission Provider, is imminently likely (as determined in a nondiscriminatory manner) to cause a material adverse effect on the security of, or damage to the Transmission System, Transmission Provider's Interconnection Facilities or the Transmission Systems of others to which the Transmission System is directly connected; or (iii) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided, that Interconnection Customer is not obligated by this SGIA to possess black start capability.

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13.2 Obligations

Each Party shall comply with the Emergency Condition procedures of the Applicable Reliability Standards, Applicable Laws and Regulations, and any emergency procedures agreed to by the Joint Operating Committee.

13.3 Notice

Transmission Provider shall notify Interconnection Customer promptly when it becomes aware of an Emergency Condition that affects Transmission Provider's Interconnection Facilities or the Transmission System that may reasonably be expected to affect Interconnection Customer's operation of the Generating Facility or Interconnection Customer's Interconnection Facilities. Interconnection Customer shall notify Transmission Provider promptly when it becomes aware of an Emergency Condition that affects the Generating Facility or Interconnection Customer's Interconnection Facilities that may reasonably be expected to affect the Transmission System or Transmission Provider's Interconnection Facilities. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of Interconnection Customer's or Transmission Provider's facilities and operations, its anticipated duration and the corrective action taken and/or to be taken. The initial notice shall be followed as soon as practicable with written notice.

13.4 Immediate Action

Unless, in Interconnection Customer's reasonable judgment, immediate action is required, Interconnection Customer shall obtain the consent of Transmission Provider, such consent to not be unreasonably withheld, prior to performing any manual switching operations at the Generating Facility or Interconnection Customer's Interconnection Facilities in response to an Emergency Condition either declared by Transmission Provider or otherwise regarding the Transmission System.

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13.5 Transmission Provider Authority

13.5.1 General

Transmission Provider may take whatever actions or inactions with regard to the Transmission System or Transmission Provider's Interconnection Facilities it deems necessary during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Transmission System or Transmission Provider's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service.

Transmission Provider shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Generating Facility or Interconnection Customer's Interconnection Facilities. Transmission Provider may, on the basis of technical considerations, require the Generating Facility to mitigate an Emergency Condition by taking actions necessary and limited in scope to remedy the Emergency Condition, including, but not limited to, directing Interconnection Customer to shut-down, start-up, increase or decrease the real or reactive power output of the Generating Facility; implementing a reduction or disconnection pursuant to Article 13.5.2; directing Interconnection Customer to assist with blackstart (if available) or restoration efforts; or altering the outage schedules of the Generating Facility and Interconnection Customer's Interconnection Facilities. Interconnection Customer shall comply with all of Transmission Provider's operating instructions concerning Generating Facility real power and reactive power output within the manufacturer's design limitations of the Generating Facility's equipment that is in service and physically available for operation at the time, in compliance with Applicable Laws and Regulations.

13.5.2 Reduction and Disconnection

Transmission Provider may reduce Interconnection Service or disconnect the Generating Facility or Interconnection Customer's Interconnection Facilities, when such, reduction or disconnection is necessary under Good Utility Practice due to Emergency

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Conditions. These rights are separate and distinct from any right of curtailment of Transmission Provider pursuant to Transmission Provider's Tariff. When Transmission Provider can schedule the reduction or disconnection in advance, Transmission Provider shall notify Interconnection Customer of the reasons, timing and expected duration of the reduction or disconnection. Transmission Provider shall coordinate with Interconnection Customer using Good Utility Practice to schedule the reduction or disconnection during periods of least impact to Interconnection Customer and Transmission Provider. Any reduction or disconnection shall continue only for so long as reasonably necessary under Good Utility Practice. The Parties shall cooperate with each other to restore the Generating Facility, the Interconnection Facilities, and the Transmission System to their normal operating state as soon as practicable consistent with Good Utility Practice.

13.6 Interconnection Customer Authority

Consistent with Good Utility Practice and the SGIA and the SGIP, Interconnection Customer may take actions or inactions with regard to the Generating Facility or Interconnection Customer's Interconnection Facilities during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Generating Facility or Interconnection Customer's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service. Interconnection Customer shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Transmission System and Transmission Provider's Interconnection Facilities. Transmission Provider shall use Reasonable Efforts to assist Interconnection Customer in such actions.

13.7 Limited Liability

Except as otherwise provided in Article 11.6.1 of this SGIA, neither Party shall be liable to the other for any action it takes in responding to an Emergency Condition so long as such action is made in good faith and is consistent with Good Utility Practice.

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Article 14. Regulatory Requirements and Governing Law

14.1 Regulatory Requirements

Each Party's obligations under this SGIA shall be subject to its receipt of any required approval or certificate from one or more Governmental Authorities in the form and substance satisfactory to the applying Party, or the Party making any required filings with, or providing notice to, such Governmental Authorities, and the expiration of any time period associated therewith. Each Party shall in good faith seek and use its Reasonable Efforts to obtain such other approvals.

14.2 Governing Law

- 14.2.1 The validity, interpretation and performance of this SGIA and each of its provisions shall be governed by the laws of British Columbia, without regard to its conflicts of law principles.
- 14.2.2 This SGIA is subject to all Applicable Laws and Regulations.
- 14.2.3 Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, rules, or regulations of a Governmental Authority.

Article 15. Notices

15.1 General

Unless otherwise provided in this SGIA, any notice, demand or request required or permitted to be given by either Party to the other and any instrument required or permitted to be tendered or delivered by either Party in writing to the other shall be effective when delivered and may be so given, tendered or delivered, by recognized national courier, or by depositing the same with Canada Post with postage prepaid, for delivery by certified or registered mail, addressed to the Party, or personally delivered to

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the Party, at the address set out in Appendix E, Addresses for Delivery of Notices and Billings.

Either Party may change the notice information in this SGIA by giving five (5) Business Days written notice prior to the effective date of the change.

15.2 Billings and Payments

Billings and payments shall be sent to the addresses set out in Appendix E.

15.3 Alternative Forms of Notice

Any notice or request required or permitted to be given by a Party to the other and not required by this Agreement to be given in writing may be so given by telephone, facsimile or email to the telephone numbers and email addresses set out in Appendix E.

15.4 Operations and Maintenance Notice

Each Party shall notify the other Party in writing of the identity of the person(s) that it designates as the point(s) of contact with respect to the implementation of Articles 9 and 10.

Article 16. Force Majeure

16.1 Force Majeure

- 16.1.1 Economic hardship is not considered a Force Majeure event.
- 16.1.2 Neither Party shall be considered to be in Default with respect to any obligation hereunder, (including obligations under Article 4), other than the obligation to pay money when due, if prevented from fulfilling such obligation by Force Majeure. A Party unable to fulfill any obligation hereunder (other than an obligation to pay money when due) by reason of Force Majeure shall give notice and the full particulars of such Force Majeure to the other Party in writing or by telephone as soon as reasonably possible after the

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occurrence of the cause relied upon. Telephone notices given pursuant to this article shall be confirmed in writing as soon as reasonably possible and shall specifically state full particulars of the Force Majeure, the time and date when the Force Majeure occurred and when the Force Majeure is reasonably expected to cease. The Party affected shall exercise due diligence to remove such disability with reasonable dispatch, but shall not be required to accede or agree to any provision not satisfactory to it in order to settle and terminate a strike or other labour disturbance.

Article 17. Default

17.1 Default

17.1.1 General

No Default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of Force Majeure as defined in this SGIA or the result of an act of omission of the other Party. Upon a Breach, the non-breaching Party shall give written notice of such Breach to the breaching Party. Except as provided in Article 17.1.2, the breaching Party shall have thirty (30) Calendar Days from receipt of the Default notice within which to cure such Breach; provided however, if such Breach is not capable of cure within thirty (30) Calendar Days, the breaching Party shall commence such cure within thirty (30) Calendar Days from receipt of the Default notice within thirty (30) Calendar Days after notice and continuously and diligently complete such cure within ninety (90) Calendar Days from receipt of the Default notice; and, if cured within such time, the Breach specified in such notice shall cease to exist.

17.1.2 Right to Terminate

If a Breach is not cured as provided in this article, or if a Breach is not capable of being cured within the period provided for herein, the non-breaching Party shall have the right to declare a Default and terminate this SGIA by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this SGIA, to recover from the breaching Party all amounts due

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hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this article will survive termination of this SGIA.

Article 18. Indemnity, Consequential Damages and Insurance

18.1 Indemnity

Each Party shall at all times indemnify, defend, and hold the other Party, and its directors, officers, employees, agents and shareholders (each, an Indemnified Person) harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, legal fees, and all other obligations by or to third parties, arising out of or resulting from a Party's Breach, except in cases of gross negligence or intentional wrongdoing by the other Party.

18.1.1 Indemnified Person

If an Indemnified Person is entitled to indemnification under this Article 18 as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under Article 18.1, to assume the defense of such claim, such Indemnified Person may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.

18.1.2 Indemnifying Party

If an indemnifying Party is obligated to indemnify and hold any Indemnified Person harmless under this Article 18, the amount owing to the Indemnified Person shall be the amount of such Indemnified Person's actual Loss, net of any insurance or other recovery.

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18.1.3 Indemnity Procedures

Promptly after receipt by an Indemnified Person of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in Article 18.1 may apply, the Indemnified Person shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

The indemnifying Party shall have the right to assume the defense thereof with counsel designated by such indemnifying Party and reasonably satisfactory to the Indemnified Person. If the defendants in any such action include one or more Indemnified Persons and the indemnifying Party and if the Indemnified Person reasonably concludes that there may be legal defenses available to it and/or other Indemnified Persons which are different from or additional to those available to the indemnifying Party, the Indemnified Person shall have the right to select separate counsel to assert such legal defenses and to otherwise participate in the defense of such action on its own behalf. In such instances, the indemnifying Party shall only be required to pay the fees and expenses of one additional attorney to represent an Indemnified Person or Indemnified Persons having such differing or additional legal defenses.

The Indemnified Person shall be entitled, at its expense, to participate in any such action, suit or proceeding, the defense of which has been assumed by the indemnifying Party. Notwithstanding the foregoing, the indemnifying Party (i) shall not be entitled to assume and control the defense of any such action, suit or proceedings if and to the extent that, in the opinion of the Indemnified Person and its counsel, such action, suit or proceeding involves the potential imposition of criminal liability on the Indemnified Person, or there exists a conflict or adversity of interest between the Indemnified Person and the indemnifying Party, in such event the indemnifying Party shall pay the reasonable expenses of the Indemnified Person, and (ii) shall not settle or consent to the

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entry of any judgment in any action, suit or proceeding without the consent of the Indemnified Person, which shall not be unreasonably withheld, conditioned or delayed.

18.2 Consequential Damages

In no event shall either Party be liable under any provision of this SGIA for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to the other Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

18.3 Insurance

Each Party shall, at its own expense, maintain in force throughout the period of this SGIA, and until released by the other Party, the following minimum insurance coverages, with insurers authorized to do business in British Columbia:

- 18.3.1 Employers' Liability and Workers' Compensation Insurance providing statutory benefits in accordance with Applicable Laws and Regulations.
- 18.3.2 Commercial General Liability Insurance including premises and operations, personal injury, broad form property damage, broad form blanket contractual liability coverage (including coverage for the contractual indemnification) products and completed operations coverage, coverage for explosion, collapse and underground hazards, independent contractors coverage, coverage for pollution to the extent normally available and punitive damages to the extent normally available and a cross liability endorsement, with minimum limits of One Million Dollars (\$1,000,000) per occurrence/One Million Dollars (\$1,000,000) aggregate combined single limit for personal injury, bodily injury, including death and property damage.

- 18.3.3 Comprehensive Automobile Liability Insurance for coverage of owned and non-owned and hired vehicles, trailers or semi-trailers designed for travel on public roads, with a minimum, combined single limit of One Million Dollars (\$1,000,000) per occurrence for bodily injury, including death, and property damage.
- 18.3.4 Excess Public Liability Insurance over and above the Employers' Liability Commercial General Liability and Comprehensive Automobile Liability Insurance coverage, with a minimum combined single limit of Twenty Million Dollars (\$20,000,000) per occurrence/Twenty Million Dollars (\$20,000,000) aggregate.
- 18.3.5 The Commercial General Liability Insurance, and Excess Public Liability Insurance policies shall name the other Party, its parent, associated and Affiliate companies and their respective directors, officers, agents, servants and employees (Other Party Group) as additional insureds. All policies shall contain provisions whereby the insurers waive all rights of subrogation in accordance with the provisions of this SGIA against the Other Party Group and provide thirty (30) days advance written notice to the Other Party Group prior to anniversary date of cancellation or any material change in coverage or condition.
- 18.3.6 The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance and Excess Public Liability Insurance policies shall contain provisions that specify that the polices are primary and shall apply to such extent without consideration for other policies separately carried and shall state that each insured is provided coverage as though a separate policy had been issued to each, except the insurer's liability shall not be increased beyond the amount for which the insurer would have been liable had only one insured been covered. Each Party shall be responsible for its respective deductibles or retentions.
- 18.3.7 The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance and Excess Public Liability Insurance policies, if written on a Claims First Made Basis, shall be maintained in full force and effect for two (2) years after

termination of this SGIA, which coverage may be in the form of tail coverage or extended reporting period coverage if agreed by the Parties.

- 18.3.8 The requirements contained herein as to the types and limits of all insurance to be maintained by the Parties are not intended to and shall not in any manner, limit or qualify the liabilities and obligations assumed by the Parties under this SGIA.
- 18.3.9 Within ten (10) days following execution of this SGIA, and as soon as practicable after the end of each fiscal year or at the renewal of the insurance policy and in any event within ninety (90) days thereafter, each Party shall provide certification of all insurance required in this SGIA, executed by each insurer or by an authorized representative of each insurer.
- 18.3.10 Notwithstanding the foregoing, each Party may self-insure to meet the minimum insurance requirements of Articles 18.3.2 through 18.3.8 to the extent it maintains a self-insurance program; provided that, such Party's debtis rated at investment grade or better by Standard & Poor's and that its self-insurance program meets the minimum insurance requirements of Articles 18.3.2 through 18.3.8. For any period of time that a Party's debt is unrated by Standard & Poor's or is rated at less than investment grade by Standard & Poor's, such Party shall comply with the insurance requirements applicable to it under Articles 18.3.2 through 18.3.9. In the event that a Party is permitted to self-insure pursuant to this article, it shall notify the other Party that it meets the requirements to self-insure and that its self-insurance program meets the minimum insurance requirements in a manner consistent with that specified in Article 18.3.9.
- 18.3.11 The Parties agree to report to each other in writing as soon as practical all accidents or occurrences resulting in injuries to any person, including death, and any property damage arising out of this SGIA.

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Article 19. Assignment

19.1 Assignment

This SGIA may be assigned by either Party only with the written consent of the other; provided that either Party may assign this SGIA without the consent of the other Party to any Affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this SGIA; and provided further that Interconnection Customer shall have the right to assign this SGIA, without the consent of Transmission Provider, for collateral security purposes to aid in providing financing for the Generating Facility, provided that Interconnection Customer will promptly notify Transmission Provider of any such assignment. Any financing arrangement entered into by Interconnection Customer pursuant to this Article will provide that prior to or upon the exercise of the secured party's, trustee's or mortgagee's assignment rights pursuant to said arrangement, the secured creditor, the trustee or mortgagee will notify Transmission Provider of the date and particulars of any such exercise of assignment right(s), including providing the Transmission Provider with proof that it meets the requirements of Articles 11.5 and 18.3. Any attempted assignment that violates this Article is void and ineffective. Any assignment under this SGIA shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. Where required, consent to assignment will not be unreasonably withheld, conditioned or delayed.

Article 20. Severability

20.1 Severability

If any provision in this SGIA is finally determined to be invalid, void or unenforceable by any court or other Governmental Authority having jurisdiction, such determination shall not invalidate, void or make unenforceable any other provision, agreement or covenant of this SGIA.

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Article 21. Comparability

21.1 Comparability

The Parties will comply with all applicable comparability and code of conduct laws, rules and regulations, as amended from time to time.

Article 22. Confidentiality

22.1 Confidentiality

Confidential Information shall include, without limitation, all information relating to a Party's technology, research and development, business affairs, and pricing, and any information supplied by either of the Parties to the other prior to the execution of this SGIA.

Information is Confidential Information only if it is clearly designated or marked in writing as confidential on the face of the document, or, if the information is conveyed orally or by inspection, if the Party providing the information orally informs the Party receiving the information that the information is confidential.

If requested by either Party, the other Party shall provide in writing, the basis for asserting that the information referred to in this Article 22 warrants confidential treatment, and the requesting Party may disclose such writing to the appropriate Governmental Authority. Each Party shall be responsible for the costs associated with affording confidential treatment to its information.

Notwithstanding the foregoing, the release of Confidential Information shall be subject to Applicable Laws and Regulations and Applicable Reliability Standards.

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22.1.1 Term

During the term of this SGIA, and for a period of three (3) years after the expiration or termination of this SGIA, except as otherwise provided in this Article 22, each Party shall hold in confidence and shall not disclose to any person Confidential Information.

22.1.2 Scope

Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the other Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the other Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of this SGIA; or (6) is required, in accordance with Article 22.1.7 of the SGIA, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise required to be disclosed by law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under this SGIA. Information designated as Confidential Information will no longer be deemed confidential if the Party that designated the information as confidential notifies the other Party that it no longer is confidential.

22.1.3 Release of Confidential Information

Neither Party shall release or disclose Confidential Information to any other person, except to its Affiliates (limited by the Standards of Conduct requirements), contractors, subcontractors, employees, consultants, or to parties who may be or considering providing financing to or equity participation with Interconnection Customer, or to potential purchasers or assignees of Interconnection Customer, on a need-to-know basis in connection with this SGIA, unless such person has first been advised of the

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confidentiality provisions of this Article 22 and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Article 22.

22.1.4 Rights

Each Party retains all rights, title, and interest in the Confidential Information that each Party discloses to the other Party. The disclosure by each Party to the other Party of Confidential Information shall not be deemed a waiver by either Party or any other person or entity of the right to protect the Confidential Information from public disclosure.

22.1.5 No Warranties

By providing Confidential Information, neither Party makes any warranties or representations as to its accuracy or completeness. In addition, by supplying Confidential Information, neither Party obligates itself to provide any particular information or Confidential Information to the other Party nor to enter into any further agreements or proceed with any other relationship or joint venture.

22.1.6 Standard of Care

Each Party shall use at least the same standard of care to protect Confidential Information it receives as it uses to protect its own Confidential Information from unauthorized disclosure, publication or dissemination. Each Party may use Confidential Information solely to fulfill its obligations to the other Party under this SGIA or as required by Applicable Law and Regulations, Applicable Reliability Standards or Good Utility Practice.

22.1.7 Order of Disclosure

If a court or a Governmental Authority or entity with the right, power, and apparent authority to do so requests or requires either Party, by subpoena, oral deposition,

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interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Party with prompt notice of such request(s) or requirement(s) so that the other Party may seek an appropriate protective order or waive compliance with the terms of this SGIA. Notwithstanding the absence of a protective order or waiver, the Party may disclose such Confidential Information which, in the opinion of its counsel, the Party is legally compelled to disclose. Each Party will use Reasonable Efforts to obtain reliable assurance that confidential treatment will be accorded any Confidential Information so furnished.

22.1.8 Termination of Agreement

Upon termination of this SGIA for any reason, each Party shall, within ten (10) Calendar Days of receipt of a written request from the other Party, use Reasonable Efforts to destroy, erase, or delete (with such destruction, erasure, and deletion certified in writing to the other Party) or return to the other Party, without retaining copies thereof, any and all written or electronic Confidential Information received from the other Party.

22.1.9 Remedies

The Parties agree that monetary damages would be inadequate to compensate a Party for the other Party's Breach of its obligations under this Article 22. Each Party accordingly agrees that the other Party shall be entitled to equitable relief, by way of injunction or otherwise, if the first Party Breaches or threatens to Breach its obligations under this Article 22, which equitable relief shall be granted without bond or proof of damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the Breach of this Article 22, but shall be in addition to all other remedies available at law or in equity. The Parties further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or

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consequential or punitive damages of any nature or kind resulting from or arising in connection with this Article 22.

22.1.10 Disclosure to the Commission

Notwithstanding anything in this Article 22 to the contrary, if the Commission during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to this SGIA, the Party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the Party must request that the information be treated as confidential and non-public by the Commission and that the information be withheld from public disclosure.

22.1.11 Subject to the exception in Article 22.1.10, any information that a Party claims is competitively sensitive, commercial or financial information under this SGIA (Confidential Information) shall not be disclosed by the other Party to any person not employed or retained by the other Party, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Party to be required to be disclosed in connection with a dispute between or among the Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the other Party, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this SGIA or as a transmission service provider or a Control Area operator including disclosing the Confidential Information to a subregional, regional or national reliability organization. The Party asserting confidentiality shall notify the other Party in writing of the information it claims is confidential. Prior to any disclosures of the other Party's Confidential Information under this subparagraph, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subparagraph, the disclosing Party agrees to promptly notify the other Party in writing and agrees to assert confidentiality and cooperate with the other Party in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

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Article 23. Environmental Releases

23.1 Notice of Release

Each Party shall notify the other Party, first orally and then in writing, of the release of any Hazardous Substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall: (i) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than twenty-four hours after such Party becomes aware of the occurrence; and (ii) promptly furnish to the other Party copies of any publicly available reports filed with any Governmental Authorities addressing such events.

Article 24. Information Requirements

24.1 Information Acquisition

Transmission Provider and Interconnection Customer shall submit specific information regarding the electrical characteristics of their respective facilities to each other as described below and in accordance with Applicable Reliability Standards and the requirements and procedures of applicable reliability organizations.

24.2 Information Submission by Transmission Provider

The initial information submission by Transmission Provider shall occur no later than one hundred eighty (180) Calendar Days prior to Trial Operation and shall include Transmission System information necessary to allow Interconnection Customer to select equipment and meet any system protection and stability requirements, unless otherwise agreed to by the Parties. On a monthly basis Transmission Provider shall provide Interconnection Customer a status report on the construction and installation of Transmission Provider's Interconnection Facilities and Network Upgrades, including, but not limited to, the following information: (1) progress to date; (2) a description of the

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activities since the last report; (3) a description of the action items for the next period; and (4) the delivery status of equipment ordered.

24.3 Updated Information Submission by Interconnection Customer

The updated information submission by Interconnection Customer, including manufacturer information, shall occur no later than one hundred eighty (180) Calendar Days prior to the Trial Operation. Interconnection Customer shall submit a completed copy of the Generating Facility data requirements contained in Appendix 1 to the SGIP. It shall also include any additional information provided to Transmission Provider for the Interconnection Feasibility Study and Interconnection Facilities Study. Information in this submission shall be the most current Generating Facility design or expected performance data. Information submitted for stability models shall be compatible with Transmission Provider standard models. If there is no compatible model, Interconnection Customer will work with a consultant mutually agreed to by the Parties to develop and supply a standard model and associated information.

If Interconnection Customer's data is materially different from what was originally provided to Transmission Provider pursuant to the Combined Study Agreement between Transmission Provider and Interconnection Customer, then Transmission Provider will conduct appropriate studies to determine the impact on Transmission Provider Transmission System based on the actual data submitted pursuant to this Article 24.3. The Interconnection Customer shall not begin Trial Operation until such studies are completed.

24.4 Information Supplementation

Prior to the Operation Date, the Parties shall supplement their information submissions described above in this Article 24 with any and all "as-built" Generating Facility information or "as-tested" performance information that differs from the initial submissions or, alternatively, written confirmation that no such differences exist. The Interconnection Customer shall conduct tests on the Generating Facility as required by

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Good Utility Practice such as an open circuit "step voltage" test on the Generating Facility to verify proper operation of the Generating Facility's automatic voltage regulator.

Unless otherwise agreed, the test conditions shall include: (1) Generating Facility at synchronous speed; (2) automatic voltage regulator on and in voltage control mode; and (3) a five percent change in Generating Facility terminal voltage initiated by a change in the voltage regulators reference voltage. Interconnection Customer shall provide validated test recordings showing the responses of Generating Facility terminal and field voltages. In the event that direct recordings of these voltages is impractical, recordings of other voltage are acceptable if information necessary to translate these alternate quantities to actual Generating Facility terminal or field voltages is provided. Generating Facility testing shall be conducted and results provided to Transmission Provider for each individual generating unit in a station.

Subsequent to the Commercial Operation Date, Interconnection Customer shall provide Transmission Provider any information changes due to equipment replacement, repair, or adjustment. Transmission Provider shall provide Interconnection Customer any information changes due to equipment replacement, repair or adjustment in the directly connected substation or any adjacent Transmission Provider operated substation that may affect Interconnection Customer's Interconnection Facilities equipment ratings, protection or operating requirements. The Parties shall provide such information no later than thirty (30) Calendar Days after the date of the equipment replacement, repair or adjustment.

Article 25. Information Access And Audit Rights

25.1 Information Access

Each Party (the disclosing Party) shall make available to the other Party information that is in the possession of the disclosing Party and is necessary in order for the other Party to: (i) verify the costs incurred by the disclosing Party for which the other Party is

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responsible under this SGIA; and (ii) carry out its obligations and responsibilities under this SGIA. The Parties shall not use such information for purposes other than those set forth in this Article 25.1 and to enforce their rights under this SGIA.

25.2 Reporting of Non-Force Majeure Events

Each Party (the notifying Party) shall notify the other Party when the notifying Party becomes aware of its inability to comply with the provisions of this SGIA for a reason other than a Force Majeure event. The Parties agree to cooperate with each other and provide necessary information regarding such inability to comply, including the date, duration, reason for the inability to comply, and corrective actions taken or planned to be taken with respect to such inability to comply. Notwithstanding the foregoing, notification, cooperation or information provided under this Article shall not entitle the Party receiving such notification to allege a cause for anticipatory breach of this SGIA.

25.3 Audit Rights

Subject to the requirements of confidentiality under Article 22 of this SGIA, each Party shall have the right, during normal business hours, and upon prior reasonable notice to the other Party, to audit at its own expense the other Party's accounts and records pertaining to either Party's performance or either Party's satisfaction of obligations under this SGIA. Such audit rights shall include audits of the other Party's costs, calculation of invoiced amounts, Transmission Provider's efforts to allocate responsibility for the provision of reactive support to the Transmission System, Transmission Provider's efforts to allocate responsibility for interruption or reduction of generation on the Transmission System, and each Party's actions in an Emergency Condition. Any audit authorized by this Article shall be performed at the offices where such accounts and records are maintained and shall be limited to those portions of such accounts and records that relate to each Party's performance and satisfaction of obligations under this SGIA. Each Party shall keep such accounts and records for a period equivalent to the audit rights periods described in Article 25.4.

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25.4 Audit Rights Periods

25.4.1 Audit Rights Period for Construction-Related Accounts and Records

Accounts and records related to the design, engineering, procurement, and construction of Transmission Provider's Interconnection Facilities and Network Upgrades shall be subject to audit for a period of twenty-four months following Transmission Provider's issuance of a final invoice in accordance with Article 12.2.

25.4.2 Audit Rights Period for All Other Accounts and Records

Accounts and records related to either Party's performance or satisfaction of all obligations under this SGIA other than those described in Article 25.4.1 shall be subject to audit as follows: (i) for an audit relating to cost obligations, the applicable audit rights period shall be twenty-four months after the auditing Party's receipt of an invoice giving rise to such cost obligations; and (ii) for an audit relating to all other obligations, the applicable audit rights period shall be twenty-four months after the audit relating to all other obligations, the applicable audit rights period shall be twenty-four months after the event for which the audit is sought.

25.5 Audit Results

If an audit by a Party determines that an overpayment or an underpayment has occurred, a notice of such overpayment or underpayment shall be given to the other Party together with those records from the audit which support such determination.

Article 26. Subcontractors

26.1 General

Nothing in this SGIA shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this SGIA; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and

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conditions of this SGIA in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

26.2 Responsibility of Principal

The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this SGIA. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall Transmission Provider be liable for the actions or inactions of Interconnection Customer or its subcontractors with respect to obligation imposed by this SGIA upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

26.3 No Limitation by Insurance

The obligations under this Article 26 will not be limited in any way by any limitation of subcontractor's insurance.

Article 27. Disputes

In the event either Party has a dispute, or asserts a claim, that arises out of or in connection with the other Party's failure to comply with this SGIA, such dispute or claim shall be resolved in accordance with Dispute Resolution.

Article 28. Representations, Warranties and Covenants

28.1 General

Each Party makes the following representations, warranties and covenants:

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28.1.1 Good Standing

Such Party is duly organized, validly existing and in good standing under the laws of the jurisdiction in which it is organized, formed, or incorporated, as applicable; that it is qualified to do business in British Columbia; and that it has the corporate power and authority to own its properties, to carry on its business as now being conducted and to enter into this SGIA and carry out the transactions contemplated hereby and perform and carry out all covenants and obligations on its part to be performed under and pursuant to this SGIA.

28.1.2 Authority

Such Party has the right, power and authority to enter into this SGIA, to become a party hereto and to perform its obligations hereunder. This SGIA is a legal, valid and binding obligation of such Party, enforceable against such Party in accordance with its terms, except as the enforceability thereof may be limited by applicable bankruptcy, insolvency, reorganization or other similar laws affecting creditors' rights generally and by general equitable principles (regardless of whether enforceability is sought in a proceeding in equity or at law).

28.1.3 No Conflict

The execution, delivery and performance of this SGIA does not violate or conflict with the organizational or formation documents, or bylaws or operating agreement, of such Party, or any judgment, license, permit, order, material agreement or instrument applicable to or binding upon such Party or any of its assets

28.1.4 Consent and Approval

Such Party has sought or obtained, or, in accordance with this SGIA will seek or obtain, each consent, approval, authorization, order, or acceptance by any Governmental Authority in connection with the execution, delivery and performance of this SGIA, and it

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will provide to any Governmental Authority notice of any actions under this SGIA that are required by Applicable Laws and Regulations.

Article 29. Joint Operating Committee

29.1 Joint Operating Committee

Transmission Provider shall constitute a Joint Operating Committee to coordinate operating and technical considerations of Interconnection Service. At least six (6) months prior to the expected Initial Synchronization Date, Interconnection Customer and Transmission Provider shall each appoint one representative and one alternate to the Joint Operating Committee. Interconnection Customer shall notify Transmission Provider of its appointment in writing. Such appointments may be changed at any time by similar notice. The Joint Operating Committee shall meet as necessary, but not less than once each calendar year, to carry out the duties set forth herein. The Joint Operating Committee shall hold a meeting at the request of either Party, at a time and place agreed upon by the representatives. The Joint Operating Committee shall cooperate in providing to the Joint Operating Committee all information required in the performance of the Joint Operating Committee's duties. All decisions and agreements, if any, made by the Joint Operating Committee shall be evidenced in writing. The duties of the Joint Operating Committee shall be evidenced in writing.

- 29.1.1 Establish data requirements and operating record requirements.
- 29.1.2 Review the requirements, standards, and procedures for data acquisition equipment, protective equipment, and any other equipment or software.
- 29.1.3 Annually review the one (1) year forecast of maintenance and planned outage schedules of Transmission Provider's and Interconnection Customer's facilities at the Point of Interconnection.

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- 29.1.4 Coordinate the scheduling of maintenance and planned outages on the Interconnection Facilities, the Generating Facility and other facilities that impact the normal operation of the interconnection of the Generating Facility to the Transmission System.
- 29.1.5 Ensure that information is being provided by each Party regarding equipment availability.
- 29.1.6 Establish Operating Order(s) that will, without limitation, establish operating authority boundaries and isolation procedures for the Generating Facility and that part of the Transmission System which is affected by its interconnection to the Generating Facility.
- 29.1.7 Perform such other duties as may be conferred upon it by mutual agreement of the Parties.

Article 30. Miscellaneous

30.1 Binding Effect

This SGIA and the rights and obligations hereof, shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.

30.2 Conflicts

In the event of a conflict between the body of this SGIA and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this SGIA shall prevail and be deemed the final intent of the Parties.

30.3 Rules of Interpretation

This SGIA, unless a clear contrary intention appears, shall be construed and interpreted as follows: (1) the singular number includes the plural number and vice versa; (2) reference to any person includes such person's successors and assigns but, in the case of a Party, only if such successors and assigns are permitted by this SGIA, and reference to a person in a particular capacity excludes such person in any other capacity or individually; (3) reference to any agreement (including this SGIA), document,

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instrument or tariff means such agreement, document, instrument, or tariff as amended or modified and in effect from time to time in accordance with the terms thereof and, if applicable, the terms hereof; (4) reference to any Applicable Laws and Regulations means such Applicable Laws and Regulations as amended, modified, codified, or reenacted, in whole or in part, and in effect from time to time, including, if applicable, rules and regulations promulgated thereunder; (5) unless expressly stated otherwise, reference to any Article, Section or Appendix means such Article of this SGIA or such Appendix to this SGIA, or such Section to the SGIP or such Appendix to the SGIP, as the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this SGIA as a whole and not to any particular Article or other provision hereof or thereof; (7) "including" (and with correlative meaning "include") means including without limiting the generality of any description preceding such term; and (8) relative to the determination of any period of time, "from" means "from and including", "to" means "to but excluding" and "through" means "through and including".

30.4 Entire Agreement

This SGIA, including all Appendices and Schedules attached hereto, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this SGIA. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this SGIA.

30.5 No Third Party Beneficiaries

This SGIA is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favour of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.

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30.6 Waiver

The failure of a Party to this SGIA to insist, on any occasion, upon strict performance of any provision of this SGIA will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this SGIA shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this SGIA. Termination or Default of this SGIA for any reason by Interconnection Customer shall not constitute a waiver of Interconnection Customer's legal rights to obtain an interconnection from Transmission Provider. Any waiver of this SGIA shall, if requested, be provided in writing.

30.7 Headings

The descriptive headings of the various Articles of this SGIA have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this SGIA.

30.8 Multiple Counterparts

This SGIA may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

30.9 Amendment

The Parties may by mutual agreement amend this SGIA by a written instrument duly executed by the Parties.

30.10 Modification by the Parties

The Parties may by mutual agreement amend the Appendices to this SGIA by a written instrument duly executed by the Parties. Such amendment shall become effective and a part of this SGIA upon satisfaction of all Applicable Laws and Regulations.

ACCEPTED:

30.11 Reservation of Rights

Transmission Provider and Interconnection Customer shall each have the right to make a unilateral filing with the Commission to modify this SGIA with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before the Commission in which such modifications may be considered.

30.12 No Partnership

This SGIA shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

IN WITNESS WHEREOF, the Parties have executed this SGIA in duplicate originals, each of which shall constitute and be an original effective Agreement between the Parties.

BRITISH COLUMBIA HYDRO AND POWER AUTHORITY

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APPENDIX A to SGIA

Interconnection Facilities and Network Upgrades

- 1. Interconnection Facilities:
 - (a) [insert Interconnection Customer's Interconnection Facilities]:
 - (b) [insert Transmission Provider's Interconnection Facilities]:

2. Network Upgrades:

- (a) [insert Stand Alone Network Upgrades]:
- (b) [insert Other Network Upgrades]:

ACCEPTED:_____

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APPENDIX B to SGIA

Milestones

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APPENDIX C to SGIA

Interconnection Details

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APPENDIX D to SGIA

Commercial Operation Date

This Appendix D is a part of the SGIA between Transmission Provider and Interconnection Customer.

[Date]

BC Hydro

[To be supplied.]

Attention: [To be supplied]

Re: _____ Generating Facility

Dear____:

On [Date] [Interconnection Customer] has completed Trial Operation of Unit No. ____. This letter confirms that [Interconnection Customer] commenced Commercial Operation of Unit No. ____ at the Generating Facility, effective as of [Date plus one day].

Thank you.

[Signature]

[Interconnection Customer Representative]

ACCEPTED:_____

BC Hydro

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APPENDIX E to SGIA

Addresses for Delivery of Notices and Billings

Notices:

<u>Transmission Provider</u>: BC Hydro [To be supplied.]

Attention: [To be supplied]

Interconnection Customer:

[To be supplied.]

Billings and Payments:

Transmission Provider: [To be supplied.]

Interconnection Customer:

[To be supplied.]

Alternative Forms of Delivery of Notices (telephone, facsimile or email):

Transmission Provider: [To be supplied.]

Interconnection Customer:

[To be supplied.]

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APPENDIX F to SGIA

Reserved

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APPENDIX G to SGIA

Dispute Resolution Procedure

1. Internal Dispute Resolution Procedures

Any dispute between the Interconnection Customer and Transmission Provider involving Interconnection Service under the Tariff or this SGIA (excluding applications for rate changes or other changes to the Tariff which shall be presented directly to the Commission for resolution) shall be referred to a designated senior representative of the Transmission Provider and a senior representative of the Interconnection Customer for resolution on an informal basis as promptly as practicable. In the event the designated representatives are unable to resolve the dispute within thirty (30) Calendar Days or such other period as the Parties may agree upon by mutual agreement, such dispute may be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below.

2. External Arbitration Procedures

Any arbitration initiated pursuant to Paragraph 1 above shall be conducted in British Columbia before a single neutral arbitrator appointed by the Parties. If the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the referral of the dispute to arbitration, each Party shall choose one arbitrator who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within twenty (20) Calendar Days select a third arbitrator to chair the arbitration panel. In either case, the arbitrators shall be knowledgeable in electric utility matters and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall conduct the arbitration in British Columbia and shall provide each of the Parties an opportunity to be heard and, except as otherwise provided herein, shall generally conduct the arbitration in accordance with the Commercial Arbitration Act of British Columbia.

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3. Arbitration Decisions

Unless otherwise agreed, the arbitrator(s) shall render a decision within ninety (90) Calendar Days of appointment and shall notify the Parties in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of the Tariff and this SGIA, as applicable, and shall have no power to modify or change any of them in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards of the Commercial Arbitration Act of British Columbia. The final decision of the arbitrator must also be filed with the Commission if it affects the Transmission Provider's rates, terms and conditions of service or facilities.

4. Costs

Each Party shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable:

- (a) the cost of the arbitrator chosen by the Party to sit on the three member panel and one half of the cost of the third arbitrator chosen; or
- (b) one half the cost of the single arbitrator jointly chosen by the Parties.

5. Rights Under The British Columbia Utilities Commission Act

Nothing in this dispute resolution procedure shall restrict the rights of any party to file a Complaint with the Commission under relevant provisions of the British Columbia *Utilities Commission Act.*

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ATTACHMENT M-2

Transmission Service and Interconnection Service Procedures for Competitive Electricity Acquisition Processes (CEAPs)

1. Preamble

This attachment contains certain replacement and additional procedures required in order for interconnection customers to obtain NRIS, and for Network Customers to obtain modifications to its Network Integration Transmission Service, for generation resources participating in and selected in a Competitive Electricity Acquisition Process.

2. Definitions

Capitalized words not defined in this Section 2 of Attachment M-2 shall be given the meanings ascribed to them elsewhere in this Tariff.

Competitive Electricity Acquisition Process (CEAP) means a competitive process initiated by a Network Customer to acquire electricity from CEAP Generators.

CEAP Generator means a generation resource that is the subject of a CEAP IR, and **CEAP Generators** means all such generation resources.

CEAP IR means an Interconnection Request for Network Resource Interconnection Service received from a Participant on the CEAP IR Submission Date in accordance with the provisions of this Attachment M-2 and Section 3.3.1 of the SGIP.

CEAP IR Submission Date means the date specified by a Network Customer for the submission of CEAP IRs in connection with any CEAP.

CEAP Transmission Information means information relating to the Transmission System that could assist in evaluating the incremental costs to a Network Customer for its Network Integration Transmission Service if it were to designate CEAP Generators as

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Network Resources, including without limitation transmission cut-planes and reinforcement options.

D-Connected CEAP Generator means a generation resource, the proponent of which is participating in a CEAP, but for which no CEAP IR is submitted because the generation resource is seeking interconnection to the Network Customer's distribution system.

Optional CEAP Studies means studies involving the Transmission System or CEAP IRs or both that could assist a Network Customer in selecting the Successful Participants.

Participant means the proponent of a CEAP Generator, and **Participants** means all such proponents.

Reasonable Efforts means efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a person would use to protect the person's own interests.

SGIP means Attachment M-1 of the Tariff.

Successful Participant means a Participant with whom a Network Customer is prepared to contract with for the supply of power in connection with any CEAP.

Workshop means the workshop referred to in Paragraph 4.3 below.

3. Relationship with Tariff

The provisions of the balance of the Tariff apply to CEAP IRs and any Applications for a modification to NITS received by the Transmission Provider in connection with any CEAP, except as otherwise specifically provided in this Attachment M-2.

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4. CEAP Procedures

4.1 Advanced Notice of CEAP

A Network Customer that wishes to avail itself of the provisions of this Attachment M-2 in connection with a CEAP, and make the provisions of this Attachment M-2 available to Participants in that CEAP, shall provide the Transmission Provider with at least 60 Calendar Days' prior written notice before formally issuing or commencing the CEAP.

4.2 Consultation

A Network Customer and the Transmission Provider shall consult during the period beginning on receipt by the Transmission Provider of the notice contemplated by Paragraph 4.1 and ending on the date the CEAP Transmission Information is provided to the Network Customer in respect of the following:

- (a) Design considerations for the CEAP for coordination with the Tariff;
- (b) Milestones for activities to be undertaken pursuant to this Attachment M-2;
- (c) Scope and volume of CEAP Transmission Information;
- (d) Scope and volume of Optional CEAP Studies;
- (e) Date of the Workshop; and
- (f) Coordination of studies related to D-Connected CEAP Generators.

The purpose of the consultation is to assist the Network Customer in designing and implementing a CEAP process that meets the Network Customer's needs and integrates with the Tariff, including the timelines provided for in this Attachment M-2.

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4.3 Workshop

At Network Customer's request, or in the absence of such a request at Transmission Provider's option, Transmission Provider shall provide a workshop for Participants in respect of CEAP IR requirements at least 30 Calendar Days before the CEAP IR Submission Date.

4.4 Pre-Submission of CEAP IRs

Each Participant must submit an Interconnection Request for each of its CEAP Generators to the Transmission Provider at least 30 Calendar Days before the CEAP IR Submission Date. Sections 3.3.2, 3.3.3 and Appendix 1 (including Attachments) of the SGIP apply in respect of these Interconnection Requests.

4.5 CEAP IR Submission Date

A Network Customer shall specify a CEAP IR Submission Date for every CEAP. Notwithstanding Sections 3.3.1 and 3.3.3 of the SGIP, only valid Interconnection Requests received by the Transmission Provider from Participants on or before the CEAP IR Submission Date, together with an executed Interconnection Feasibility Study Agreement and the deposits required by Sections 3.3.1 and 6.1 of the SGIP, will be accepted by the Transmission Provider as CEAP IRs and processed in accordance with this Attachment M-2. Section 3.3.4 of the SGIP does not apply to CEAP IRs. Section 3.4 of the SGIP only applies to CEAP IRs from and after the CEAP IR Submission Date.

4.6 CEAP IR Queue Position

Notwithstanding the definition of Queue Position in the SGIP, the Queue Position for CEAP IRs shall be deemed to have been received simultaneously at 12:00 AM on that CEAP IR Submission Date and each shall be assigned the same Queue priority.

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4.7 Interconnection Feasibility Studies

The Transmission Provider shall complete an Interconnection Feasibility Study for each CEAP IR in accordance with Section 6 of the SGIP except as follows:

- (a) Notwithstanding Section 6.2 of the SGIP, the Interconnection Feasibility Study for each CEAP IR will not consider the other CEAP IRs;
- Notwithstanding Section 6.3 of the SGIP, Transmission Provider shall use Reasonable Efforts to complete all Interconnection Feasibility Studies for the CEAP IRs within 10 weeks of the CEAP IR Submission Date;
- Notwithstanding Sections 6.3 and 3.4 of the SGIP, Transmission Provider shall deliver all Interconnection Feasibility Studies to Participants on the same day, and shall only post the Interconnection Feasibility Study reports to its OASIS site 10 Business Days after their delivery to Participants; and
- (d) Notwithstanding Section 6.1 of the SGIP, substitute Points of Interconnection shall not be available.

4.8 CEAP Transmission Information

The Transmission Provider shall use Reasonable Efforts to publish publicly the CEAP Transmission Information requested by the Network Customer during the consultation contemplated by Paragraph 4.2 above no later than the date on which it delivers the Interconnection Feasibility Study reports to Participants as contemplated by Paragraph 4.7 above. The Transmission Provider shall use Reasonable Efforts to account for all pending Applications received at least 60 Calendar Days immediately prior to the CEAP IR Submission Date and all Applications for Point-to-Point Transmission Service received prior to the CEAP IR Submission Date in the CEAP Transmission Information.

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4.9 Optional CEAP Studies

The Transmission Provider shall use Reasonable Efforts to complete and report on the Optional CEAP Studies requested by the Network Customer within 26 weeks of the CEAP IR Submission Date. The Network Customer may not request Optional CEAP Studies that cannot be reasonably completed by the Transmission Provider within that 26-week period. If the Optional CEAP Studies require the use of information contained in the CEAP IRs, the Network Customer must obtain the Participants' consent to the use of such information in the Optional CEAP Studies.

4.10 Selection of Successful Participants

Within 30 weeks of the CEAP IR Submission Date or 4 weeks after receipt by the Network Customer of the Optional CEAP Studies, whichever is later, the Network Customer shall provide written notice to the Transmission Provider of the Successful Participants and shall submit an Application for a modification of its NITS to address the following, and only the following, matters:

- (a) designating the Successful Participants as Network Resources in accordance with Section 29 of the Tariff; and
- (b) as necessary to reflect the selection by the Network Customer as part of the same CEAP of D-Connected CEAP Generators in respect of which the Network Customer is reasonably likely to contract for the supply of power.

If the Network Customer provides such notice and submits such an Application the CEAP IRs of Participants other than Successful Participants will be deemed withdrawn pursuant to Section 3.6 of the SGIP. If the Network Customer fails to provide such notice or fails to make such an Application all Participants' CEAP IRs will be deemed withdrawn pursuant to Section 3.6 of the SGIP.

ACCEPTED:

4.11 Timing of Combined Study Agreement

Notwithstanding Section 7.1 of the SGIP, the Transmission Provider shall only tender a Combined Study Agreement to Successful Participants. Transmission Provider shall tender a Combined Study Agreement to a Successful Participant no later than seven Calendar Days after the Transmission Provider receives the Network Customer's written notice of the Successful Participants pursuant to Paragraph 4.10 above. If a Successful Participant fails to return an executed Combined Study Agreement and deposit as required by Section 7.2 of the SGIP to the Transmission Provider within 30 Calendar Days of its tender, the Successful Participant's CEAP IR will be deemed withdrawn pursuant to Section 3.6 of the SGIP.

4.12 Deemed Withdrawal of CEAP IR

The CEAP IRs of any Participant that is no longer eligible to participate in the CEAP for any reason, or any Participant that does not comply with the requirements of this Attachment M-2, will be deemed withdrawn pursuant to Section 3.6 of the SGIP.

4.13 Standards of Conduct Prevail

Except as specifically provided for herein, nothing herein shall detract from or limit the Transmission Provider's obligations to comply with its Standards of Conduct.

5. Multiple CEAPs

Subject to any relief obtained by a Network Customer pursuant to Paragraph 7.1, if a Network Customer issues or commences a CEAP with a CEAP IR Submission Date less than one year after the CEAP IR Submission Date of any other CEAP issued or commenced by that Network Customer, then:

 Section 4 of this Attachment M-2, as modified by paragraphs (b) to (f) below, will apply in respect of the second CEAP, and Section 6 of this Attachment M-2 will not apply in respect of the second CEAP;

ACCEPTED:

- (b) The Transmission Provider will not consider any of the CEAP IRs in connection with the second CEAP in any System Impact Study, Facilities Study or Interconnection Study commenced before the Transmission Provider receives the Network Customer's written notice of the Successful Participants pursuant to Paragraph 4.10 above in connection with the second CEAP;
- (c) When received by the Transmission Provider, the Network Customer's Application for a modification to its NITS pursuant to Paragraph 4.10 above in connection with the second CEAP will have a deemed service priority as though it had been received at 12:00 AM on the second CEAP's CEAP IR Submission Date, immediately after the CEAP IRs in connection with the second CEAP;
- (d) Where as a result of Paragraph 5(b) or Paragraph 5(c), a restudy of any:
 - System Impact Study or Facilities Study completed in connection with any Application with a lower service priority to the Network Customer's Application for a modification to its NITS pursuant to Paragraph 4.10 above in connection with the second CEAP; or
 - Interconnection Study completed in connection with any Interconnection Request with a lower Queue Position than the CEAP IRs in connection with the second CEAP,

is or would be necessary, then in respect of such Interconnection Request or Application:

- iii. the Network Customer will indemnify and save harmless the Transmission Provider, and the Interconnection Customer associated with such Interconnection Request or the Transmission Customer associated with such Application as applicable, from and against:
 - A. all restudy costs; and

ACCEPTED:

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- B. the costs of the Interconnection Facilities or Direct Assignment Facilities, as applicable, identified by the restudy to the extent they: (x) are incremental to the costs of the Interconnection Facilities or Direct Assignment Facilities, as applicable, identified by the original study; and (y) arise as a result of Paragraph 5(b) or Paragraph 5(c); and
- iv. notwithstanding anything else contained in the Tariff, the Network
 Customer may be required and such Interconnection Customer or such
 Transmission Customer, as applicable, will not be required to post
 Security in respect of the costs of any Network Upgrades identified by the
 restudy to the extent they: (x) are incremental to the costs of the Network
 Upgrades identified by the original study; and (y) arise as a result of
 Paragraph 5(b) or Paragraph 5(c);
- (e) Where the Transmission Provider has not completed sufficient study work in respect of a pending Interconnection Request or Application by the second CEAP's CEAP IR Submission Date to identify its impacts to the Transmission System, the Transmission Provider will not consider such Application or Interconnection Request in any of the Interconnection Feasibility Studies or Optional CEAP Studies it conducts in connection with the second CEAP; and
- (f) Where after completing sufficient study work in respect of a pending Interconnection Request or Application referred to in Paragraph 5(e) a restudy of a CEAP IR in connection with the second CEAP is or would be necessary then in respect of such CEAP IR:
 - the Network Customer will indemnify and save harmless the Transmission Provider, and the Interconnection Customer associated with such CEAP IR from and against:
 - A. all restudy costs; and

ACCEPTED:

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- B. the costs of the Interconnection Facilities identified by the restudy to the extent they: (x) are incremental to the costs of the Interconnection Facilities identified by the original study; and (y) arise as a result of the completed study work in respect of a pending Interconnection Request or Application referred to in Paragraph 5(e); and
- ii. notwithstanding anything else contained in the Tariff, the Network
 Customer may be required and such Interconnection Customer will not be required to post Security in respect of the costs of any Network Upgrades identified by the restudy to the extent they: (x) are incremental to the costs of the Network Upgrades identified by the original study; and (y) arise as a result of the completed study work in respect of a pending Interconnection Request or Application referred to in Paragraph 5(e).

6. Processing Other Service Requests

6.1 Processing of Interconnection Requests with Lower Queue Positions

Notwithstanding Section 6.1 of the SGIP, the Transmission Provider shall not tender an Interconnection Feasibility Study Agreement to any Interconnection Customer with an Interconnection Request with a lower Queue Position than the CEAP IRs until the earlier of:

- (a) the Network Customer's selection of the Successful Participants; and
- (b) a determination by the Transmission Provider that: (i) none of the CEAP IRs could affect the Interconnection Study results of such Interconnection Request with the lower Queue Position; and (ii) no Interconnection Request with a higher Queue Position in respect of which the Transmission Provider has not yet tendered an Interconnection Feasibility Study Agreement could affect the

ORDER NO.

Interconnection Study results of such Interconnection Request with the lower Queue Position.

6.2 Processing of Transmission Requests

Notwithstanding Part II and Part III of the Tariff, all Applications received by the Transmission Provider from and after the CEAP IR Submission Date until the Network Customer submits its Application for a modification to its NITS pursuant to Paragraph 4.10 above shall be deemed to have been received by the Transmission Provider, in the same order as originally received by the Transmission Provider, but immediately after the Network Customer's Application for a modification to its NITS made pursuant to Paragraph 4.10 above or, if no such Application is made, then beginning at 12:00 AM on the date such Application was to have been made, provided however, where the Transmission Provider is able to determine based on:

- (a) the CEAP IRs and corresponding Interconnection Feasibility Studies;
- (b) any studies completed by the Transmission Provider at the Network Customer's request in respect of D-Connected CEAP Generators; and
- (c) Applications with a higher service priority,

that the processing of such an Application will not affect the System Impact Study results or Facilities Study results of:

- (d) the Network Customer's Application for a modification to its NITS pursuant to Paragraph 4.10; or
- (e) all Applications with a higher service priority whose processing has been delayed because of this Paragraph 6.2,

the Transmission Provider shall process such Application in accordance with the Tariff.

ACCEPTED:

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7. Relief from Requirements of this Attachment M-2

7.1 Application to the Commission for Relief

A Network Customer may apply to the Commission for relief from one or more of the requirements contained in this Attachment M-2 where a variance serves the broader public interest.

ACCEPTED:

ATTACHMENT N

Deferral Credits for Long Term Point-To-Point Customers Who Participate in a Dispatch Option During Critical Peak Periods

1. Eligibility

This Deferral Credit only applies to an Interconnection Customer (Customer) that: (i) applies for interconnection of a new or refurbished Generating Facility that has not achieved Commercial Operation prior to the effective date of this Attachment, and that results in net generating capacity in excess of the highest net generating capacity provided by existing facilities at that location in the most recent five years; and (ii) enters into a Dispatch Option with the Transmission Provider with respect to that Generating Facility.

2. Definitions

- (a) System Plan Network Upgrade has the same meaning as in Attachment O.
- (b) Dispatch Option is an agreement between BC Hydro and the Customer, under which the Transmission Provider may dispatch a Generating Facility during critical peak periods to provide additional capacity on the transmission system

3. Deferral Credit Calculation

(a) The Deferral Credit is the larger of zero or:

 $DC = 0.75 \times (O - N - E)$

Where

- DC = Deferral Credit
- O = the present value of the estimated cost of the Transmission
 Provider's System Plan Network Upgrades including the Customer's
 PTP service without a Dispatch Option.

ACCEPTED:

- N = the present value of the estimated cost of the Transmission
 Provider's System Plan Network Upgrades that, in the judgment of
 the Transmission Provider acting reasonably, would be required with
 the Customer's Dispatch Option.
- E = the present value of any incremental operating and maintenance expenses occasioned by the change in the System Impact Study due to Customer's PTP service.

The interest rate used for discounting costs will be the prevailing discount rate used in the Transmission Provider's most recent System Plan.

- (b) The calculations in section 3(a) shall be conducted with the following conditions.
 - The present value for N and O are calculated over the term of the Dispatch Option, except where the deferral of System Plan Network Upgrades results in deferred expenditures beyond the Dispatch Option's term, in which case the present value period shall be extended until the date the System Plan indicates those deferred expenditures will be incurred.
 - The timing of the construction of System Plan Network Upgrades used for O shall reflect the timing of construction contemplated by the Transmission Provider's System Plan but adjusted for the impacts of any PTP contracts that the Transmission Provider has issued since the date of the last System Plan.

4. Deferral Credit Payments

(a) Customer will receive a monthly Deferral Credit equal to its bill for PTP transmission services in connection with the output of the Generating Facility that is the subject of the Dispatch Option on the LTF PTP rate schedule excluding the costs of scheduling, losses and ancillary services.

ACCEPTED:

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- (b) The Transmission Provider will reduce the balance of the outstanding Deferral Credit by the amount credited to the Customer on its bill.
- (c) As long as the Customer continues to take LTF PTP service in connection with the output of the Generating Facility that is the subject of the Dispatch Option, the Customer will continue to receive a Deferral Credit until the balance of the Deferral Credit is reduced to zero.
- (d) The Transmission Provider will compute and provide an initial forecast of the time required to amortize and reduce the entire amount of the Deferral Credit as provided for herein to zero. The Transmission Provider will track remaining credit balances for all Customers and notify them of material changes in the amortization period due to LTF PTP rate changes.
- (e) If a Customer is entitled to Deferral Credits and has provided the Transmission Provider security for Network Upgrades in connection with Attachment O, the Transmission Provider will apply the Deferral Credits against the Customer's transmission service bill, and reduce amount of the Security by an equivalent amount. That reduction is in addition to any reduction in the amount of the Security that the Customer is entitled to pursuant Section III.D.3 of Attachment O for any portion of the Customer's transmission service bill actually paid by the Customer.
- (f) If the Transmission Provider determines, through its sole judgment, that the Customer does not meet the operating characteristics or fails to meet performance requirements necessary to support the deferral of System Plan Network Upgrades, the Transmission Provider may suspend or cancel the application of the monthly Deferral Credit.

ACCEPTED:_____

ATTACHMENT O

Recovery of New Facilities Costs

I. Development of System Plan

The Transmission Provider will develop an annual System Plan to assure that sufficient transmission capacity exists to serve all Long-Term Firm Point-to-Point (LTF PTP) Service and Network Integration Transmission Service (NITS) commitments.

The annual System Plan will be developed based on current NITS and LTF PTP Service commitments with their rollover rights and the annual load forecast provided by the Network Customer as required by Section 31.6 of this Tariff.

II. Definitions

Capitalized words not defined in this Section II of Attachment O shall be given the meanings ascribed to them elsewhere in this Tariff.

A. Direct Assignment Facilities

Direct Assignment Facilities are facilities or portions of facilities that are constructed by the Transmission Provider for the sole use/benefit of a particular Transmission Customer requesting service under the Tariff. Direct Assignment Facilities shall be specified in the Service Agreement that governs service to the Transmission Customer and may be subject to Commission approval.

B. Transmission Provider Interconnection Facilities

Transmission Provider Interconnection Facilities are all facilities and equipment owned, controlled or operated by the Transmission Provider from the Point of Change of Ownership to the Point of Interconnection as identified in Appendix A of the Standard Generator Interconnection Agreement (SGIA) with any generator, including any modifications, additions or upgrades to such facilities and equipment. Transmission Provider's Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

C. System Plan Network Upgrades

System Plan Network Upgrades are modifications or additions to transmissionrelated facilities that are integrated with and support the Transmission Provider's overall Transmission System for the general benefit of all users of such Transmission System identified in the development of the System Plan as necessary to maintain reliable service for long-term firm service commitments including:

- LTF PTP Services, including import, export and flow through services; and
- 2. NITS, as required to accommodate expected load growth, but excluding Network Upgrades identified in NRIS Interconnection Studies.
- D. Network Upgrades

Network Upgrades are modifications or additions to transmission-related facilities that are not System Plan Network Upgrades. Network Upgrades for:

- LTF PTP Service is defined in Section 1.26 of Terms and Conditions in the OATT.
- Energy Resource Interconnection Service (ERIS) is defined in Section 1 of Attachment M-1 to the OATT.
- Network Resources Interconnection Service (NRIS) is defined in Section 1 of Attachment M-1 to the OATT.

ACCEPTED:

III. Cost Recovery

A. Direct Assignment Facilities

The Transmission Customer shall pay the costs of Direct Assignment Facilities.

B. Transmission Provider's Interconnection Facilities

The Interconnection Customer shall pay the costs of Transmission Provider's Interconnection Facilities.

C. System Plan Network Upgrades

The costs of System Plan Network Upgrades are recovered through transmission rates for PTP and NITS.

- D. Network Upgrades
 - 1. Funding of Network Upgrades

The Transmission Provider shall fund Network Upgrades.

- 2. Provision of Revenue Guarantee for Network Upgrades
 - (a) Transmission Customers shall provide Transmission Provider with security for the Network Upgrades in the form of a standby irrevocable letter of credit or other form of security that is reasonably acceptable to Transmission Provider ("Security") in accordance with Section 19.4 or Section 32.4 of OATT. Interconnection Customers shall provide Security for Network Upgrades in accordance with Article 11.5 of the SGIA. Notwithstanding the above and notwithstanding Section 19.4 and Section 32.4 of OATT and Article 11.5 of the SGIA, if the Transmission Customer or Interconnection Customer is BC Hydro,

then no security for Network Upgrades is required under Section 19.4 or Section 32.4 of OATT or Article 11.5 of the SGIA.

- (b) Such Security shall be granted in favour of Transmission Provider and shall be in a sufficient amount which may be revised from time to time to cover the costs for designing, constructing, procuring and installing the Network Upgrades.
- (c) Such Security must be made by an entity that meets the creditworthiness requirements of Transmission Provider, or issued by a financial institution reasonably acceptable to Transmission Provider. If the entity making the Security ceases to meet the creditworthiness requirements of the Transmission Provider or the financial institution issuing the security ceases to be reasonably acceptable to the Transmission Provider, then the Transmission Customer shall provide a new form of security that meets the Transmission Provider's requirements, as stated above, within 30 Calendar Days of notice being provided to the Transmission Customer.
- (d) The Security will be held for a period and reduced by the Transmission Provider in accordance with Section III.D.3 of this Attachment O.
- (e) The Transmission Customer or Interconnection Customer will be responsible for the costs of arranging for and maintaining the Security.
- (f) The Transmission Provider will not pay interest on the amount on the Security.
- 3. Release of and Reducing Outstanding Balance of Security

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(a) LTF PTP Service

- (i) The Transmission Provider shall reduce the outstanding balance of the Security by an amount equal to the Transmission Customer's payment for transmission services on the LTF PTP rate schedule excluding the costs of scheduling, losses and ancillary services. Subject to paragraphs (ii) and (iii) below, the Transmission Provider will continue to reduce the outstanding balance of the Security by the Transmission Customer's payment for service until the balance becomes zero.
- (ii) If the Transmission Customer terminates its Service Agreement, the Transmission Provider may call on the full outstanding balance of the Security at that time.
- (b) ERIS
 - (i) If LTF PTP Service is purchased to transmit output from the Generating Facility receiving ERIS pursuant to the same SGIA pursuant to which the Security was provided, the Transmission Provider will, subject to paragraphs (ii) and (iii) below, reduce the outstanding amount of the Security in accordance with Section III.D.3.(a) of this Attachment O.
 - (ii) If the Interconnection Customer terminates the SGIA or the Interconnection Customer's Generating Facilities fails to achieve Commercial Operation within 3 years of the target date for Commercial Operation set out in Appendix B of the SGIA, the Transmission Provider may call on the full outstanding balance of the Security at that time.

(c) NRIS

- (i) If Interconnection Customer's Generating Facility is designated as a Network Resource, the Transmission Provider will, subject to paragraph (ii) below, at the end of each calendar year beginning with the calendar year during which the Generating Facility achieves Commercial Operation, agree to a reduction in the then outstanding amount of the Security by an amount equal to the capacity of the Generating Facility designated as a Network Resource during that calendar year multiplied by the LTF PTP rate, excluding the costs of scheduling, losses and ancillary services.
- (ii) If the Interconnection Customer terminates the SGIA or the Interconnection Customer's Generating Facility fails to achieve Commercial Operation within 3 years of the target date for Commercial Operation set out in Appendix B of the SGIA, the Transmission Provider may call on the full outstanding balance of the Security at that time.
- (iii) If Interconnection Customer's Generating Facility is not or ceases to be designated as a Network Resource, Transmission Provider shall deal with the Security in accordance with Section III.D.3.(b) of this Attachment O.
- (d) Security Balance Information

The Transmission Provider will compute and provide to each Transmission Customer or Interconnection Customer, as applicable, an initial forecast of the time required to reduce the entire amount of the Security to zero. The Transmission Provider

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will track remaining credit balances for all Transmission Customers and Interconnection Customers and notify them of material changes in the length of time required to reduce the outstanding balance of the Security to zero due to LTF PTP rate changes.

4. Multiple Securities

Where Transmission Customer or Interconnection Customer causes Network Upgrades for more than one service, the Transmission Customer may consolidate the Securities required for each Network Upgrade into one with an amount equals to sum total of the Network Upgrade costs incurred.

- E. Clustering and Open Season
 - 1. Interconnection

Pursuant to Section 4.2 of SGIP, the Transmission Provider may elect to study Interconnection Requests using Clustering. In Clustering, the Transmission Provider may allocate the costs of Network Upgrades identified in the Interconnection Facilities Study arising out of Clustering between or among the Interconnection Requests subject to the Clustering on a pro rata basis relative to the maximum output of the Generating Facilities that are the subject of the Interconnection Requests. The Interconnection Customers of these Generating Facilities shall provide Security in the same amount of their respective allocated Network Upgrade costs. The Transmission Provider may reduce the amount of the Security as described in Section III.D.3.(b) or III.D.3.(c) of this Attachment.

2. LTF PTP

ACCEPTED:

Pursuant to Section 15.8 of the OATT, the Transmission Provider may elect to study LTF PTP service requests in an Open Season process. The Transmission Provider may allocate costs of Network Upgrades identified in the Facilities Study arising out of the Open Season process to Transmission Customers on a pro rata basis relative to the capacity requested by each Transmission Customer, after having deducted, for any Transmission Customer, any requested capacity that has been accommodated by any available transmission capability identified in the System Impact Study and allocated to that Transmission Customer in accordance with Section 15.8 and Section 15.9. The Transmission Customers shall provide Security in the same amount as their respective allocated Network Upgrade costs. The Transmission Provider may reduce the amount of the Security as described in Section III.D.3.(a) of this Attachment.

ATTACHMENT P

Contingency Resource Plans (CRP) and Release of Capacity Not Required by Network Integration Transmission Service (NITS)

1. Reservation of ATC for Network Customer's Contingency Plans

The Network Customer may include high and low load forecast scenarios and resource plan contingencies approved by the Commission (together "Contingency Resource Plans") in its Network Integration Transmission Service (NITS) Application. In addition to the information requirements of Section 29.2 of the Tariff, the Network Customer will provide the expected in service date and, to the extent possible, other information described in Section 29.2(e) for the forecast generation resources included in its Contingency Resource Plans.

The Transmission Provider will treat such application as one service request. If there is sufficient ATC to meet the Network Customer's service request which includes the Contingency Resource Plans, the Transmission Provider will reserve the transmission capacity for the Network Customer's service request in accordance with the queue priority of the Network Customer's NITS Application. If there is insufficient ATC to meet the Network Customer's service request, the Transmission Provider will conduct transmission studies in accordance with the Tariff and identify Network Upgrades for each load forecast scenario and for each resource plan contingency separately.

2. Planning for Forecast Load Growth and Contingency Resource Plans of Network Customers

Pursuant to Section 31.6 of this Tariff, Network Customers are required to provide annual updates of Network Load and Network Resource forecasts. The Network Customer may also revise the expected in service dates of the forecasted generation resources identified in the Network Customer's Contingency Resource Plan. The Transmission Provider will perform an annual evaluation of the capability of the

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Transmission System to reliably accommodate these new forecasts in addition to ongoing Firm Point-to-Point Transmission Service and other Network Integration Transmission Service obligations. In the event that this evaluation determines that there is insufficient capacity to meet the forecast needs of all Network Customers along with the ongoing rights of existing Firm Point-to-Point Transmission Service customers, the Transmission Provider will use the following process to resolve these competing requests for Transmission Service to serve reasonably forecast needs:

- 2.1 The Transmission Provider will annually request 10-year load forecasts and Network Resources (current and projected) in accordance with Section 31.6 of this Tariff.
- 2.2 The Transmission Provider will model reasonable forecast loads, current Network Resources and Contingency Resource Plans, and Firm Point-to-Point Transmission Service commitments, including rollover rights, where not previously limited covering the planning horizon (10 years) to determine whether there is sufficient ATC in the planning horizon to accommodate these existing and forecast commitments.
- 2.3 If the Transmission System is over-committed, the Transmission Provider will determine whether additional Network Upgrades are required and whether a revision of the current construction schedule for currently planned Network Upgrades is needed.
- 2.4 The Transmission Provider will determine the costs of any additional required Network Upgrades and provide the Network Customer with the revised estimated costs and construction schedule of the additional Network Upgrades and currently planned Network Upgrades.
- 2.5 The Transmission Provider will allocate the responsibility for the costs of Network Upgrades in accordance with Attachment O to this Tariff.
- 2.6 If the Transmission Provider determines that the Transmission System would be overcommitted before appropriate Network Upgrades can be constructed, the Transmission Provider will inform the Network Customer that Network Resource designation of the

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forecasted generation resources identified in the Network Customer's Contingency Resource Plans will not be possible until the Network Upgrade are complete.

3. Release of Unused Capacity Reserved for Network Customer

As described in Section 2 of this Attachment P, the Transmission Provider will plan the Transmission System to meet the needs of the Network Customers as defined by the information in the 10 year annual forecast including any requirements for the Network Customer's Contingency Resource Plans. The capacity reservation associated with previously identified load forecasts and Contingency Resource Plans is queued at the time of the forecast submittal, but is released for use by other customers until it is required by the Network Customer. In order to make available to other customers capacity that will not be needed to serve the Network Customer's load from the forecasted generation resources in Network Customer's Contingency Resource Plans, the Network Customer must designate such forecasted generation resources as Network Resources pursuant to Section 30.2 of the Tariff, at least sixty (60) Calendar Days in advance of the previously identified expected in service date in the forecast by an OASIS request. If the Network Customer does not do so, the associated ATC for the next sixty (60) Calendar Days will be released to the market.

When evaluating new requests for Firm Point-to-Point Transmission Service, the Transmission Provider will make transmission capacity available to Point-to-Point Customers until such time as that capacity is needed to serve the existing Network Customer's load. The determination of ATC will be based on prior commitments and the annual submittals by Network Customers of forecast network load, Network Resources and Contingency Resource Plans.

If at the time of a request for new Firm Point-to-Point Transmission Service the Transmission Provider determines that sufficient transmission capacity will not be available to accommodate both the forecast load growth and Contingency Resource Plans of existing Network Customers, and the new request for Point-to-Point

ACCEPTED:

Transmission Service beyond the term of the request, the Service Agreement for the Point-to-Point Transmission Service request will reflect this limitation to the rollover rights of the new service.

ACCEPTED:_____

ATTACHMENT Q-1

Dynamic Scheduling

This attachment contains the eligibility requirements and the terms and conditions for the provision of dynamic scheduling to Transmission Customers.

1. Definitions

- (a) "AGC" means Automatic Generation Control.
- (b) "Dynamic Scheduling Business Practices" means the Transmission Provider's published Dynamic Scheduling Spinning Reserve, Dynamic Scheduling Contingency Reserve and Dynamic Scheduling Regulation Reserve business practices, as amended or replaced from time to time.
- (c) "Dynamic Schedule" means a telemetered reading or value that is updated in real-time and is used as a schedule in the Transmission Provider's AGC and Area Control Error equation. The integrated value is treated as a schedule for interchange accounting purposes.
- (d) "Dynamic Scheduling Energy" means regulating energy or energy delivered from operating reserves.
- (e) "Dynamic Scheduling Transmission" means firm hourly transmission used for the real-time delivery of Dynamic Scheduling Energy to the Receiving Balancing Authority Area and consists of Dynamic Scheduling Spinning Reserve (DSSpinRes), Dynamic Scheduling Contingency Reserve (DSConRes) and Dynamic Scheduling Regulation Reserve (DSRegRes).
- (f) "EMS" means Energy Management System.

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- (g) "Intermediary Balancing Authority Area" means any Balancing Authority Area between the Host Balancing Authority Area and the Receiving Balancing Authority Area.
- (h) Reserved
- (i) "Receiving Balancing Authority Area" means the Balancing Authority Area which is to dynamically receive Dynamic Scheduling Energy schedules.
- (j) "Host Balancing Authority Area" means the Balancing Authority Area which is to send Dynamic Scheduling Energy schedules from system resources within its Balancing Authority Area.
- (k) "SCADA" means Supervisory Control and Data Acquisition.
- (I) "WECC" means the Western Electricity Coordinating Council, or any successor organization.

2. Availability of Dynamic Scheduling Transmission

Dynamic Scheduling Transmission is only available as follows:

- (a) while such Dynamic Scheduling Transmission is technically feasible and consistent with all applicable reliability standards adopted by the BCUC and WECC criteria and policies;
- (b) if the Transmission Provider's Balancing Authority Area is the Host Balancing Authority Area:
 - while the Transmission Provider has arrangements in place with applicable Intermediary Balancing Authority Areas for the facilitation by each such Intermediary Balancing Authority Area of Dynamic Scheduling Energy, as appropriate, and

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- (ii) while the Transmission Provider has arrangements in place with the Receiving Balancing Authority Area for the receipt by the Receiving Balancing Authority Area of Dynamic Scheduling Energy, as appropriate; and
- (c) if the Transmission Provider's Balancing Authority Area is an Intermediary Balancing Authority Area, while the Transmission Provider has arrangements in place with the Host Balancing Authority Area, Receiving Balancing Authority Area, and any other Intermediary Balancing Authority Area for the delivery, receipt, and facilitation of Dynamic Scheduling Energy, as appropriate.

3. Eligibility Requirements

To be eligible to designate Dynamic Scheduling Transmission, a Transmission Customer must satisfy the following eligibility requirements.

- (a) The Transmission Customer must satisfy the requirements of the Receiving Balancing Authority Area with respect to the delivery of Dynamic Scheduling Energy into the Receiving Balancing Authority Area.
- (b) The Transmission Customer must satisfy the requirements of Intermediary Balancing Authority Area(s) with respect to Dynamic Scheduling Energy and arrangement of appropriate transmission services through the Intermediary Balancing Authority Area.
- (c) The Transmission Customer must satisfy the requirements and standards of the Transmission Provider with respect to dynamic scheduling from the Transmission Provider's Balancing Authority Area, as those requirements and standards are described from time to time in this Attachment Q-1 and the Dynamic Scheduling Business Practices.

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- (d) The Transmission Customer shall be responsible for all costs related to its own systems and equipment required to dynamically schedule, such as communications equipment, communication circuits and facility upgrades.
- (e) The Transmission Customer must have sufficient resources of the appropriate type available and ready to be delivered in the scheduled period from a resource or resources for dynamic scheduling that are electrically located within the Transmission Provider's Balancing Authority Area must be responsive to control signals issued by the Transmission Provider's EMS.
- (f) The Transmission Customer must have a Firm Point to Point Transmission Service reservation that is of equal or greater duration and capacity than the duration and capacity designated by the Transmission Customer as Dynamic Scheduling Transmission.
- (g) The Transmission Customer must comply with applicable reliability standards adopted by the BCUC and WECC criteria and policies.
- (h) If, at any time, a Transmission Customer fails to meet any of the eligibility requirements in this section 3, the Transmission Provider may immediately suspend the Transmission Customer's eligibility for dynamic scheduling.

4. Relationship Between Dynamic Scheduling Transmission and Dynamic Scheduling Energy

The Transmission Customer may reserve Dynamic Scheduling Transmission only up to its reasonably expected share of the total capacity of Dynamic Scheduling commitments to the Receiving Balancing Authority Area. The procedures for scheduling Dynamic Scheduling Energy shall be as set out from time to time in the Dynamic Scheduling Business Practices.

ACCEPTED:

5. Resale and Reassignment of Unused Dynamic Scheduling Transmission

- (a) Transmission Customers cannot resell or reassign any reserved transmission capacity during the time, and to the extent, that it is designated for Dynamic Scheduling Transmission.
- (b) The Transmission Provider will not resell any reserved transmission capacity that has been designated for Dynamic Schedling Transmission.

6. Official Dispatch Signal

The Transmission Provider, as the Host Balancing Authority Area, is responsible for issuing the official dispatch signal for any dynamically scheduled resources located within its Balancing Authority Area.

7. Dispatch Instruction Data

- (a) When acting as the Host Balancing Authority Area, the Transmission Provider will automatically dispatch Dynamic Scheduling Energy upon receiving the Receiving Balancing Authority Area's dispatch instruction data, based on the value of the dispatch instruction data, up to any existing constraints that might be in place at the time of dispatch and subject to the limitations described in section 8 of this Attachment Q-1. Receiving Balancing Authority Area's dispatch instruction data will govern provided that there are no constraints.
- (b) For the purpose of this section, the following are deemed to be constraints:
 - (i) the reliability of the Transmission System is threatened;
 - (ii) resource constraints declared by the resource owner;
 - (iii) insufficient firm transmission reservations for Dynamic Scheduling purposes; and

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- (iv) any constraints imposed by the Receiving Balancing Authority Area or any Intermediary Balancing Authority Areas on the scheduling path.
- (c) The Transmission Customer is responsible for resolving with the Receiving Balancing Authority Area any discrepancy in data between the Receiving Balancing Authority Area's dispatch instruction data and the Transmission Customer's eTag. The Transmission Customer is responsible for ensuring the accuracy and resolving any discrepancies in eTag information related to the Intermediary Balancing Authority Areas.

8. Limitations

Dynamic Schedules will be limited by the Transmission Provider's cut-off times, and by the Transmission Provider's reasonable assessment of its capabilities to process Dynamic Schedules. Dynamic Schedules will be processed on a first-come, first-received basis, up to the limit of the number of Dynamic Schedules that may be concurrently delivered and the total volume of Dynamic Scheduling Energy that may be delivered.

9. Losses

Any transmission losses attributed to the Dynamic Schedule on transmission systems external to the Transmission Provider's Transmission System will be the responsibility of the Transmission Customer.

10. Settlement Data Discrepancy

- (a) The Transmission Provider will use its own time-integrated energy value for inter-Control Area check-out and for settlement and billing purposes.
- (b) The Transmission Customer is responsible for resolving with the Receiving Balancing Authority Area any discrepancy between the time-integrated energy value used by the Transmission Provider and the time-integrated energy value

ACCEPTED:

provided by the Receiving Balancing Authority Area prior to sending the value to the Transmission Provider for settlement purposes.

11. Failure of Dynamic Transfer Signal or Official Dispatch Signal

- (a) If the Host Balancing Authority Area's or Receiving Balancing Authority Area's dynamic transfer signal fails, the Transmission Provider's obligation to comply with the Host Balancing Authority or Receiving Balancing Authority Area's request is automatically suspended.
- (b) If the Host Balancing Authority Area's or Receiving Balancing Authority Area's dynamic transfer signal fails or the official dispatch signal from the Transmission Provider fails, the last known value will be used for the remainder of the hour. If the Transmission Provider does not recover the signal by the end of the hour, the Transmission Provider will decrease the value to zero.
- (c) For the purposes of this section, a signal fails if both redundant communication paths fail.

12. Suspension or Reduction in Dynamic Schedules

In addition to the limitations and constraints described in sections 7 and 8, the Transmission Provider may suspend or reduce Dynamic Schedules out of its Balancing Authority Area if:

- (a) the reliability of the Transmission System is threatened; or
- (b) the Receiving Balancing Authority Area or an Intermediary Balancing Authority Area requests that Dynamic Schedules be limited or suspended.

13. Sharing of Information

The Transmission Provider may share with the Host Balancing Authority Area, Receiving Balancing Authority Area, Intermediary Balancing Authority Areas, and reliability

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coordinators whatever operational information directly related to dynamic scheduling is necessary or desirable to facilitate dynamic scheduling. The foregoing information shall include such information that may be required by applicable tariff provisions and business practices and standards of any of the Host Balancing Authority Area, Receiving Balancing Authority Area, Intermediary Balancing Authority Areas, and the Transmission Provider, and shall also include such information that may be required by each of the Receiving Balancing Authority Area, Intermediary Balancing Authority Areas and the Transmission Provider to curtail dynamic schedules in accordance with its tariff, business practices, standards and applicable service agreements.

14. Charges for Dynamic Scheduling (DS) Service

- (a) DS Service designated from Short-Term Firm service is charged in accordance with Rate Schedule 01 of OATT.
- (b) DS Service designated from Long-Term Firm service is charged in acordance with Rate Schedule 01 of OATT.
- (c) Charges for Scheduling, System Control and Dispatch will be applied in accordance with Rate Schedule 03 of OATT.

ATTACHMENT Q-2

Network Economy Service

1. In this Attachment:

"Market Price" means the market price for energy as determined by the Transmission Provider in a manner approved by the Commission.

"Network Economy Service" means the use of the Transmission Provider's transmission system, pursuant to section 28.4 of the Tariff, to deliver energy to its Network Loads from resources that have not been designated as Network Resources.

"Trigger Price" means the Trigger Price as determined by the Transmission Provider in a manner approved by the Commission.

- 2. Notwithstanding section 14.7 of the Open Access Transmission Tariff, for each hour in the delivery day:
 - (a) Network Economy reservations will have the priority and rights provided in section 14.7 of the Open Access Transmission Tariff only if the Market Price is less than or equal to the Trigger Price for the delivery hour; and
 - (b) If the Market Price is greater than the Trigger Price for the delivery hour, Network Economy reservations will have the same priority as Non-Firm Point-To-Point service, with the exception that the provisions of section 14.2 of the Open Access Transmission Tariff providing for reservation priority based on price shall not apply.

The Transmission Provider will post each day on its website or OASIS by 23:59:00, whether Network Economy for each hour in the delivery day will have the priority as set out in (a) or (b).

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- 3. Where a single Network Economy reservation spans multiple delivery hours, the priority assigned to the whole reservation will be that of the lowest priority hour, as determined in section 2 of this Attachment.
- 4. The Network Customer must provide the Transmission Provider with its Trigger Price in a form and at times required by the Transmission Provider, and approved by the Commission. The Network Customer may not use Network Economy service for the period in which it is reserved if the Network Customer has failed to comply with this section.
- 5. The Network Customer must, for the entirety of the reporting period, each reporting period to commence on the day after the last day of the previous reporting period and to include all full weekly reporting periods up to and including the last day of the full weekly reporting period immediately prior to the last day of the calendar month, maintain an average utilization rate of all Network Economy reservations of at least 95% of the average utilization of Daily and Hourly Non-Firm Point-To-Point service by customers, other than the Network Customer or its marketing affiliates, in pre-schedule and Real-Time, over the same reporting period. If the Network Customer's average utilization rate for Network Economy Service over the entirety of the reporting period is below 95% of that level, the Transmission Provider, commencing on the first day of the following calendar month, will curtail all unused Network Economy reservations at thirty minutes prior to the delivery hour. The Network Customer may subsequently reserve additional Network Economy service. These new reservations will have the same priority as provided in section 2(b) of this Attachment. If the average utilization of all Network Economy reservations over the entirety of the reporting period, each reporting period to commence on the day after the last day of the previous reporting period and to include all full weekly reporting periods up to and including the last day of the full weekly reporting period immediately prior to the last day of the calendar month, increases to at least 95% of the average utilization of Daily and Hourly Non-Firm Point-To-Point service by customers, other than the Network Customer or its marketing affiliates, in preschedule and Real-Time for the same reporting period, then commencing on the first day

ACCEPTED:

of the following calendar month the Transmission Provider will curtail all unused Network Economy reservations in accordance with the Transmission Provider's Business Practices.

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ORDER NO._____

ATTACHMENT Q-3

Spinning Reserve and Contingency Reserve Transmission Service

This attachment contains additional terms and conditions applicable to Spinning Reserve Transmission Service and Contingency Reserve Transmission Service, which may used by Transmission Customers for the purpose of scheduling Spinning Reserves or Contingency Reserves from generation resources inside the Transmission Provider's Balancing Authority to other Balancing Authorities.

1. Definitions

- (a) "Contingency Reserve" means an amount of spinning and non-spinning reserve, sufficient to reduce area control error (ACE) to zero within ten minutes.
- (b) "Contingency Reserve Transmission Service" means hourly Firm Point-To-Point Transmission Service used for the delivery of Contingency Reserves out of the Transmission Provider's Balancing Authority.
- (c) "EMS" means Energy Management System.
- (d) "eTag" means an electronic documentation of an energy transaction, including the Point of Delivery, Point of Receipt, transmission path, transmission contracts, capacity profiles and parties.
- (e) "Non-Spinning Reserve" means the portion of off-line generating capacity which is capable of being loaded in 10 minutes and which is capable of running for at least two hours.
- (f) "Receiving Balancing Authority" means the Balancing Authority to receive Spinning Reserves or Contingency Reserves from generation resources within the Transmission Provider's Balancing Authority.

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- (g) "Spinning Reserve" means the portion of unloaded synchronized generating capacity which is capable of being loaded in 10 minutes and which is capable of running for at least two hours.
- (h) "Spinning Reserve Transmission Service" means hourly Firm Point-To-Point Transmission Service used for the delivering of Spinning Reserves out of the Transmission Provider's Balancing Authority.

2. Availability

Spinning Reserve Transmission Service and Contingency Reserve Transmission Service are available only for exports out of the Transmission Provider's Balancing Authority.

3. Eligibility

- (a) The Transmission Customer must have a Firm Point-to-Point Transmission Service reservation that is of equal or greater duration and capacity than the duration and capacity that is designated by the Transmission Customer as Spinning Reserve Transmission Service or Contingency Reserve Transmission Service.
- (b) The Transmission Customer must satisfy the requirements of the Receiving Balancing Authority with respect to the delivery of Contingency Reserves or Spinning Reserves into the Receiving Balancing Authority.
- (c) The Transmission Customer's generation resource must be responsive to control signals issued by the Transmission Provider's EMS in the scheduled period for the Contingency Reserve Transmission Service or Spinning Reserve Transmission Service.

ACCEPTED:

4. Designating and Scheduling

The Transmission Customer may designate all or a portion of its Firm Point-To-Point Transmission Service reservation to Contingency Reserve Transmission Service or Spinning Reserve Transmission Service on an hourly basis.

5. Revert Back, Resale and Reassignment of Unused Spinning Reserve Transmission Service or Contingency Reserve Transmission Service

- (a) At the Transmission Customer's request prior to the scheduled hour, the Transmission Provider will revert Firm Point-To-Point Transmission Service that has been designated for Spinning Reserve Transmission Service or Contingency Reserve Transmission Service, for the scheduled hour, back to the original Firm Point-to-Point Transmission Service reservation.
- (b) Notwithstanding section 23.1 of the Tariff, the Transmission Customer cannot resell or reassign any of its rights under its Service Agreement or Umbrella Agreement during the time, and to the extent, that such rights have been designated as Spinning Reserve Transmission Service or Contingency Reserve Transmission Service.
- (c) The Transmission Provider will not sell Firm Point-To-Point Transmission Service that is designated as Spinning Reserve Transmission or Contingency Reserve Transmission Service as unused Reserved Capacity in real-time.

6. Dispatch Instruction Data

(a) The Transmission Provider will automatically dispatch Contingency Reserve Transmission Service or Spinning Reserve Transmission Service upon receiving the Receiving Balancing Authority's dispatch instruction data, based on the value of the dispatch instruction data, up to any existing constraints that might be in place at the time of dispatch.

- (b) For the purpose of this section, a constraint exists if:
 - (i) the reliability of the Transmission System is threatened;
 - the owner of the generation resource declares that there is a resource constraint;
 - (iii) there is an insufficient Firm Point-To-Point Transmission Service reservation for the Contingency Reserve Transmission Service or Spinning Reserve Transmission Service; or
 - (iv) the Receiving Balancing Authority imposes a constraint on the scheduled path.
- (c) The Transmission Customer is responsible for resolving with the Receiving Balancing Authority any discrepancy in data between the Receiving Balancing Authority's dispatch instruction data and the Transmission Customer's eTag.

7. Charges for Contingency Reserve and Spinning Reserve Transmission Service

- (a) Contingency Reserve and Spinning Reserve Transmission Service scheduled upon Short-Term Firm Service is charged in accordance with Rate Schedule 01 of OATT.
- (b) Contingency Reserve and Spinning Reserve Transmission Service scheduled upon Long-Term Firm Service is charged in accordance with Rate Schedule 01 of OATT.
- (c) Charges for Scheduling, System Control and Dispatch will be applied in accordance with Rate Schedule 03 of OATT.

ACCEPTED:_____

ORDER NO.

ATTACHMENT Q-4

Mixed Class Wheelthrough Service

This Attachment contains additional terms and conditions applicable to Mixed Class Wheelthrough Service, which may be used by Transmission Customers for the purpose of scheduling electricity from the US to Alberta.

1. Definition

Mixed Class Wheelthrough Service is a Short-Term Point-To-Point Transmission Service on the US to Alberta path consisting of the following two Transmission Services, combined into one transmission reservation on OASIS (Point of Receipt at BC.US Border and Point of Delivery at AB.BC), of equal amount and duration: (1) a firm service on the US to BC path; and (2) a non-firm service on the BC to Alberta path.

2. Availability

Mixed Class Wheelthrough Service is only available for transactions from the US to Alberta using BC as a wheelthrough.

3. Terms and Conditions

(a) Displacement

Each path segment of the reservation of a Mixed Class Wheelthrough Service may be displaced as described in sections 13.2 and 14.2 of the Tariff. Notwithstanding those provisions, if either of the path segments of a Mixed Class Wheelthrough Service is displaced, the other path segment will also be displaced.

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(b) Curtailment

Each path segment of the reservation of a Mixed Class Wheelthrough Service may be curtailed in accordance with sections 13.6 and 14.7 of the Tariff. Notwithstanding those provisions, if either of the path segments of a Mixed Class Wheelthrough Service is curtailed, the other path segment will be curtailed by an equal amount.

(c) Changes in Service Specifications

Notwithstanding section 22.1 of the Tariff, for Mixed Class Wheelthrough Service, the Transmission Customer may not request modifications to the Point of Receipt and Point of Delivery specified in the Service Agreement or Umbrella Agreement.

(d) Resale or Reassignment of Mixed Class Wheelthrough Service

Notwithstanding section 23 of the Tariff, Mixed Class Wheelthrough Service may only be resold as Mixed Class Wheelthrough Service.

4. Charges

The transmission rate for Mixed Class Wheelthrough Service shall be in accordance with Rate Schedule 01.

5. Unauthorized Use

Use of the Mixed Wheelthrough service for transactions other than from the US to Alberta using BC as a wheelthrough is an unauthorized use of Mixed Class Wheelthrough Service. Pursuant to Schedule 01, a penalty charge will be applied at the rate of 125 percent of the Reserved Capacity Charge for the Firm Point-to-Point Transmission Service on the US to BC path segment. In addition, the customer will be billed all applicable Transmission Service and Ancillary Service charges for the entire

ACCEPTED:

duration of the Non-Firm Point-To-Point Transmission Service on the BC to Alberta path segment.

ACCEPTED:

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ATTACHMENT Q-5

Wheeling Rights Under FortisBC Inc.'s Tariff Supplement No. 9

The term "Transmission System" in the Tariff includes the facilities over which BC Hydro has the right to wheeling services (the "Wheeling Facilities") in accordance with FortisBC Inc.'s Tariff Supplement No. 9 (the "FortisBC Tariff"). Pursuant to section 29.2 and 31 of the Tariff and in its Service Agreement, the Network Customer may specify the "Point of Delivery," as that term is defined in the FortisBC Tariff, as a delivery point for Network Integration Transmission Service to Network Loads. Pursuant to section 28.2 of the Tariff, the Transmission Provider shall provide Network Integration Transmission Service to the Network Customer's designated load at the "Point of Delivery," as that term is defined in the FortisBC Tariff, and in doing so the Transmission Provider may use the Wheeling Facilities in accordance with the Wheeling Agreement. However, BC Hydro has no right or obligation regarding the Wheeling Facilities that is not in accordance with the FortisBC Tariff, including any right or obligation to plan, construct, upgrade, operate, or maintain the Wheeling Facilities.

The amounts paid by the Transmission Provider pursuant to Sections 6.1 and 6.3 of the FortisBC Tariff will be recovered on the same basis as System Plan Network Upgrades as defined in Attachment O of the Tariff.

Schedule 00

Network Integration Transmission Service

Availability	For wholesale transmission of electricity.	
Rate	Monthly Transmission Revenue Requirement:	
	Customers will be charged their load ratio share of one twelfth (1/12th) of the Network Transmission Revenue Requirement per month. The Transmission Revenue Requirement is shown in Attachment H. One-twelfth of the Transmission Revenue Requirement is \$42,825,000.	
Taxes	The Rate and Charges contained herein are exclusive of applicable taxes.	
Note	The terms and conditions under which Network Integration Transmission Service is supplied are contained in BC Hydro's OATT. Capitalized terms appearing in this Schedule, unless otherwise noted, shall have the meaning ascribed to them therein.	

Schedule 01

Point-To-Point Transmission Service

Rate for Long-Term Firm ServiceThe Reserved Capacity Charge for the Long-Term Firm Service Rate will be up to a maximum price as set out below except where the POD is a point of interconnection between the Transmission System and the transmission system of FortisBC Inc., in which case the rate shall be zero (\$0.00).The Maximum Reserved Capacity Charge is \$47,327.88/MW of reserved capacity per year to be invoiced monthly.	Availability	For transmission of electricity on a firm and non-firm basis from one or more Point(s) of Receipt (POR) to one or more Point(s) of Delivery (POD).
Reserved Capacity Billing Demand The Reserved Capacity Billing Demand is determined for each POR(s), POD(s) pair. The Reserved Capacity for each pair of POR(s) and POD(s) will be the maximum non-coincident sum of the designated POR(s) and POD(s) included in the pair.	0	 will be up to a maximum price as set out below except where the POD is a point of interconnection between the Transmission System and the transmission system of FortisBC Inc., in which case the rate shall be zero (\$0.00). The Maximum Reserved Capacity Charge is \$47,327.88/MW of reserved capacity per year to be invoiced monthly. <u>Reserved Capacity Billing Demand</u> The Reserved Capacity Billing Demand is determined for each POR(s), POD(s) pair. The Reserved Capacity for each pair of POR(s) and POD(s) will be the maximum non-coincident sum of the designated

ACCEPTED:_____

Schedule 01 – Point-To-Point Transmission Service (continued)

Rate for Short-Term Firm and Non-Firm Service	The posted prices for Short-Term Firm and Non-Firm Service will be less than or equal to a maximum price (\$/MWh) as set out below, except where the POD is a point of interconnection between the Transmission System and the transmission system of FortisBC Inc., in which case the rate shall be zero (\$0.00). <u>Maximum Price for</u> :		
	1. Monthly delivery:	\$3,943.99/MW of Reserved Capacity per month.	
	2. Weekly delivery:	\$910.15/MW of Reserved Capacity per week.	
	3. Daily delivery:	\$129.67/MW of Reserved Capacity per day.	
	4. Hourly delivery:	\$5.40/MW of Reserved Capacity per hour.	
	Discount Rate:		
	 For discounted paths posted on the Transmission Provider's OASIS, the Transmission Customer shall pay each month for Reserved Capacity Billing Demand the greater of the rates set forth below and the rate offered by the Transmission Customer and accepted by the Transmission Provider up to the maximum rate for Short-Term Firm and Non-Firm Service: 1. Hourly delivery: \$3/MW of Reserved Capacity per hour in the Heavy Load Hour period (06:00-22:00, Monday - Saturday, excluding NERC holidays) and \$1/MW of Reserved Capacity per hour for the Light Load Hour period (remaining hours and days). 2. Daily delivery: sum of the hourly delivery charge in the 24 hour period in the day. 		
Reserved Capacity for Short-Term Firm and Non-Firm Services	The Reserved Capacity shall be the maximum of the sum of non- coincident POD(s) Capacity Reservations or sum of non-coincident POR(s) Capacity Reservations.		

Schedule 01 – Point-To-Point Transmission Service (continued)

Penalty Charge	In addition to the applicable rate for service and associated charges for Ancillary Services, a penalty charge will be applied to all unauthorized usage at a rate of 125 percent of the maximum hourly delivery charge.		
Special Conditions	Discounts:		
	The following conditions apply to discounts for transmission service:		
	 any offer of a discount made by BC Hydro must be announced to all Eligible Customers solely by posting on the OASIS, 		
	2 any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an affiliate's use) must occur solely by posting on the OASIS,		
	 once a discount is negotiated, details must be immediately posted on the OASIS, and 		
	4. for any discount agreed upon for service on a path, from POR(s) POD(s), BC Hydro must offer the same discounted transmission service rate for the same time period to all Eligible Customers on all unconstrained transmission paths that go to the same POD(s) on the Transmission System.		
Taxes	The Rate and Charges contained herein are exclusive of applicable taxes.		
Resales	The rates and rules governing charges and discounts stated above shall not apply to resales of transmission service, compensation for which shall be governed by section 23.1 of the Tariff		
Note	The terms and conditions under which Transmission Service is supplied are contained in BC hydro's Open Access Transmission Tariff. Capitalized terms appearing in this Rate Schedule, unless otherwise noted, shall have the meaning ascribed to them therein.		

BC Hydro Open Access Transmission Tariff

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Schedule 02

Reserved

ACCEPTED:_____

ORDER NO.

Scheduling, System Control, and Dispatch Service

Preamble	This service is required to schedule the movement of power through, out of, within, or into a Control Area. This service can be provided only by the operator of the Control Area in which the transmission facilities used for transmission service are located. Scheduling, System Control and Dispatch Service is to be provided directly by BC Hydro. The Transmission Customer must purchase this service from BC Hydro. The charges for Scheduling, System Control and Dispatch Service are to be based on the rates set forth below.
Availability	In support of Network Integration Transmission Service, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point-to-Point Transmission Service.
Rate	\$0.129 per MW of Reserved Capacity per hour.
Taxes	The Rate and Charges contained herein are exclusive of applicable taxes.
Note	A description of the methodology for discounting Scheduling, System Control and Dispatch Services provided under this Schedule is contained in Section 3 of the BC Hydro OATT.

ORDER NO.

Reactive Supply and Voltage Control from Generation or Other Sources Services

Preamble	In order to maintain transmission voltages on BC Hydro's Transmission System within acceptable limits, generation facilities and non- generation resources capable of providing this service that are under the control of the control area operator are operated to produce (or absorb) reactive power. Thus, Reactive Supply and Voltage Control from Generation Sources Service must be provided for each transaction on BC Hydro's Transmission System. The amount of Reactive Supply and Voltage Control from Generation or other Sources and Service that must be supplied with respect to the Transmission Customer's transaction will be determined based on the reactive power support necessary to maintain transmission voltages within limits that are generally accepted in the region.	
Availability	In support of Network Integration Transmission Services, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point-to-Point Transmission Service.	
Rate	\$0.825 per MW of Reserved Capacity per hour.	
Taxes	The Rate and Charges contained herein is exclusive of applicable taxes.	
Note	A description of the methodology for discounting Reactive Supply and Voltage Control from Generation or other Sources Services provided under this Schedule is contained in Section 3 of the BC Hydro OATT.	

Regulation and Frequency Response Service

serve load within its Control Area. The Transmission Customer must her purchase this service from BC Hydro or make alternative mparable arrangements to satisfy its Regulation and Frequency sponse Service obligation. The amount of and charges for gulation and Frequency Response Service are set forth below.
support of Network Integration Transmission Service, Long and ort-Term Firm Point-to-Point Transmission Service, and Non-Firm int-to-Point Transmission Service.
37 per MW per hour of generating Capacity requested for RFR. e required amount of RFR service is a minimum of 2% of the stomer's load located in BC Hydro's control area.
e Rate and Charges contained herein is exclusive of applicable es.
lescription of the methodology for discounting Regulation and equency Response Services provided under this Schedule is named in Section 3 of the BC Hydro OATT.

Energy Imbalance Service

Preamble	Energy Imbalance Service is provided when a difference occurs between the scheduled and the actual delivery of energy to a load located within a Control Area or to a Control Area boundary over a single hour. BC Hydro must offer this service when the transmission service is used to serve load within its Control Area or to export to neighbouring Control Areas. The Transmission Customer must either purchase this service from BC Hydro or make alternative comparable arrangements, which may include use of non-generation resources capable of providing this service, to satisfy its Energy Imbalance Service obligation.
	BC Hydro shall establish a deviation band of 4 MW to be applied hourly to any energy imbalance that occurs as a result of the Transmission Customer's scheduled transaction(s). The Transmission Customer will compensate BC Hydro for such service. Energy imbalances outside the deviation band will be subject to charges to be specified by BC Hydro. The charges for Energy Imbalance Service are set forth below. "Energy Imbalance Period" means one of three 08 hour periods defined as HE23-6, HE7-14 or HE15-22.
Availability	In support of Network Integration Transmission Services, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point-to-Point Transmission Service.

Schedule 06 – Energy Imbalance Service (continued)

Energy Imbalance	Energy imbalances are calculated hourly based on deviations from scheduled generation and load. Positive imbalances occur when actual generation is greater than scheduled generation or when actual load is less than scheduled load. Negative imbalances occur when actual generation is less than scheduled generation or when actual load is greater than scheduled load.
	 Positive imbalances that do not exceed 20 MWh over an Energy Imbalance Period, will be settled at BC Hydro's hourly Energy Imbalance Price for the amount of the imbalance that does not exceed 4 MW in any hour, and at BC Hydro's hourly buy price for the amount of the imbalance in any hour that exceeds that amount.
	2. Positive imbalances that exceed 20 MWh over an Energy Imbalance Period will be settled at BC Hydro's hourly buy price for the entire amount of the imbalance over that Energy Imbalance Period.
	3. Negative imbalances that do not exceed 20 MWh over an Energy Imbalance Period, will be settled at BC Hydro's hourly Energy Imbalance Price for the amount of the imbalance that does not exceed 4 MW in any hour, and at BC Hydro's hourly sell price for the amount of the imbalance in any hour that exceeds that amount.
	 Negative imbalances that exceed 20 MWh over an Energy Imbalance Period will be settled at BC Hydro's hourly sell price for the entire amount of the imbalance over that Energy Imbalance Period.
	BC Hydro's Energy Imbalance Price will be calculated hourly based on the average of BC Hydro's hourly buy price and BC Hydro's hourly sell price.
Rate	"BC Hydro's hourly buy price" for energy received is equal to the Dow Jones Firm Daily Mid Columbia LLH Index less Bonneville Power Authority's (BPA) wheeling rate from B.CU.S Border to Mid-Columbia (Mid-C). On Sundays and NERC Holidays, BC Hydro's hourly buy price is equal to the Firm Sunday and NERC Holidays Index less the wheeling rate from B.CU.S. Border to Mid-C. If a BC Hydro system spill occurs during the month, the buy price for all hours of the month will be zero.

			nergy provided du	
	Hours(HLH are hours ending 0700 to 2200) is set hourly as follows: BPA's Mid-C to U.SB.C. Border wheeling rate will be added to the Dow Jones Firm Daily Mid Columbia HLH Index and the result will be multiplied by the following factors to derive hourly prices.			
	Hour 0700	0.8531	Hour 1500	0.9668
	Hour 0800	0.9437	Hour 1600	0.9766
	Hour 0900	0.9852	Hour 1700	1.0365
	Hour 1000	0.9995	Hour 1800	1.0966
	Hour 1100	1.0026	Hour 1900	1.0850
	Hour 1200	0.9945	Hour 2000	1.0615
	Hour 1300	0.9861	Hour 2100	1.0360
	Hour 1400	0.9731	Hour 2200	1.0031
	Hours (LLH are h	ours ending 2300 olumbia LLH Inde		ng Low Load to the Dow Jones eling rate from Mid-
	NERC Holidays	is equal to the Dov	ergy provided duri w Jones Firm Sund g rate from Mid-C	day and NERC
	BPA's wheeling	rate is available or	the BPA OASIS	website.
Taxes	The Charges cor	ntained herein are	exclusive of appli	cable taxes.
Note	A description of the methodology for discounting Energy Imbalance Services provided under this Schedule is contained in Section 3 of the BC Hydro OATT.			

ACCEPTED:_____

ORDER NO._____

Operating Reserve (OR) – Spinning Reserve Service

Preamble	Spinning Reserve Service is needed to serve load immediately in the event of a system contingency. Spinning Reserve Service may be provided by generating units that are on-line and loaded at less than maximum output and by non-generation resources capable of providing this service. BC Hydro must offer this service when the transmission service is used to serve load within its Control Area. The Transmission Customer must either purchase this service from BC Hydro or make alternative comparable arrangements to satisfy its Spinning Reserve Service obligation. The amount of and charges for Spinning Reserve Service are set forth below.	
Availability	In support of Network Integration Transmission Services, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point to Point Transmission Service.	
Rate	 \$6.20 per MW per hour of generating Capacity requested for OR - Spinning. The required amount of Spinning Reserve Service, for a Customer's load located in BC Hydro's control area, depends upon the type of generation serving the load. When the load is served by hydro generation, the required amount of Spinning Reserve Service is a minimum of 2.5% of the Customer's load. When the load is served by thermal generation, the required amount of Spinning Reserve Service is a minimum of 3.5% of the Customer's load. 	
Taxes	The Rate and Charges contained herein are exclusive of applicable taxes.	
Note	A description of the methodology for discounting Spinning Reserve Service provided under this Schedule is contained in Section 3 of the BC Hydro OATT.	

Operating Reserve (OR) – Supplemental Reserve Service

Preamble	Supplemental Reserve Service is needed to serve load in the event of a system contingency; however, it is not available immediately to serve load but rather within a short period of time. Supplemental Reserve Service may be provided by generating units that are on-line but unloaded, by quick-start generation or by interruptible load or other non-generation resources capable of providing this service. BC Hydro must offer this service when the transmission service is used to serve load within its Control Area. The Transmission Customer must either purchase this service from BC Hydro or make alternative comparable arrangements to satisfy its Supplemental Reserve Service are set forth below.	
Availability	n support of Network Integration Transmission Service, Long and hort-Term Firm Point-to-Point Transmission Service, and Non-Firm point to Point Transmission Service.	
Rate	\$6.27 per MW per hour of generating Capacity requested for OR - Supplemental.	
	The required amount of Supplemental Reserve Service, for a Customer's load located in BC Hydro's control area, depends upon the type of generation serving the load. When the load is served by hydro generation, the required amount of Supplemental Reserve Service is a minimum of 2.5% of the Customer's load. When the load is served by thermal generation, the required amount of Supplemental Reserve Service is a minimum of 3.5% of the Customer's load.	
Taxes	The Rate and Charges contained herein are exclusive of applicable taxes.	
Note	A description of the methodology for discounting Operating Reserve (OR) - Supplemental Reserve Services provided under this Schedule is contained in Section 3 of the BC Hydro OATT.	

Loss Compensation Service

Preamble	To Transmission Customers taking Network Integration Transmission Service, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point to Point Transmission Service who have elected to take the Loss Compensation Service.			
Termination Date	1 March 2011	1 March 2011		
Rate	Loss Compensation Service will be priced at "BC Hydro's hourly sell price". BC Hydro's hourly sell price for energy provided during any hour in		ing any hour in	
	which the intertie for US to BC is fully utilized, as measured by zero Available Transmission Capacity at the close of the scheduling period for that hour, is the AESO Export Opportunity Service Rate (EOS) added to the Alberta Power Pool price corresponding to that hour.			
	If the intertie for the US to BC is not fully utilized, the following hourly prices apply.			
	BC Hydro's hourly sell price for energy provided during High Load Hours (HLH are hours ending 0700 to 2200) is set hourly as follows:			
	Dow Jones Firr	n Daily Mid Col	ler wheeling rate will umbia HLH Index and ors to derive hourly p	the result will be
	Hour 0700	0.8531	Hour 1500	0.9668
	Hour 0800	0.9437	Hour 1600	0.9766
	Hour 0900	0.9852	Hour 1700	1.0365
	Hour 1000	0.9995	Hour 1800	1.0966
	Hour 1100	1.0026	Hour 1900	1.0850
	Hour 1200	0.9945	Hour 2000	1.0615
	Hour 1300	0.9861	Hour 2100	1.0360

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	1			
	Hour 1400	0.9731	Hour 2200	1.0031
	Hours (LLH are h		to 0600) is equal	
	NERC Holidays is	y sell price for ene s equal to the Dow lus BPA's wheeling	Jones Firm Sund	ay and NERC
	AESO's EOS Rat	te is available on t	he AESO website.	
	BPA's wheeling r	ate is available on	the BPA OASIS v	vebsite
Taxes	The Rate and Ch taxes.	arges contained h	erein are exclusive	e of applicable

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Real Power Losses

All transactions will incur real power losses of 6.28% on the energy delivered to the points of receipt.

ACCEPTED:_____

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OATT Amendments

BChydro

Attachment 3

Black-lined Version of OATT Terms and Conditions, Attachments and Rate Schedules



<u>BC Hydro</u> <u>Open Access Transmission Tariff</u> <u>Effective: 05 July 2010</u> <u>OATT Terms and Conditions Page i</u>

BRITISH COLUMBIA TRANSMISSION CORPORATIONHYDRO AND POWER AUTHORITY

Open Access Transmission Tariff (OATT)

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 Canal Plant Agreement Coordination Transfers

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PART I. COMMON SERVICE PROVISIONS

1. Definitions

1.1 Affiliate

With respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

1.2 Ancillary Services

Those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

1.3 Annual Transmission Costs

The total annual cost of the Transmission System for purposes of Network Integration Transmission Service shall be the amount specified in Attachment H until amended by the Transmission Provider or modified by the Commission.

1.4 Application

A request by an Eligible Customer for transmission service pursuant to the provisions of the Tariff.

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1.4.1 Business Day

Monday through Friday, excluding Statutory Holidays.

1.4.2 Calendar Day

Any day including Saturday, Sunday or a Statutory Holiday.

1.5 Commission

The British Columbia Utilities Commission.

1.6 Completed Application

An Application that satisfies all of the information and other requirements of the Tariff, including any required deposit.

1.7 Control Area

An electric power system or combination of electric power systems to which a common automatic generation control scheme is applied in order to:

- (a) match, at all times, the power output of the generators within the electric power system(s) and capacity and energy purchased from entities outside the electric power system(s), with the load within the electric power system(s);
- (b) maintain scheduled interchange with other Control Areas, within the limits of Good Utility Practice;
- (c) maintain the frequency of the electric power system(s) within reasonable limits in accordance with Good Utility Practice; and

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(d) provide sufficient generating capacity to maintain operating reserves in accordance with Good Utility Practice.

1.8 Curtailment

A reduction in firm or non-firm transmission service in response to a transfer capability shortage as a result of system reliability conditions.

1.9 Delivering Party

The entity supplying capacity and energy to be transmitted at Point(s) of Receipt.

1.10 Designated Agent

Any entity that performs actions or functions on behalf of the Transmission Provider, an Eligible Customer, or the Transmission Customer required under the Tariff.

1.11 Direct Assignment Facilities

Facilities or portions of facilities that are constructed by the Transmission Provider for the sole use/benefit of a particular Transmission Customer requesting service under the Tariff. Direct Assignment Facilities shall be specified in the Service Agreement that governs service to the Transmission Customer and may require Commission approval.

1.11.1 Direct Damages

Direct damage or loss excluding loss of profit, loss of revenue, loss of production, loss of earnings, loss of contract or any other incidental, consequential, punitive, special, exemplary, or indirect loss or damage whatsoever.

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1.12 Eligible Customer

(i) Any electric utility (including the Transmission Provider and any power marketer or US Federal power marketing agency), or any person generating electric energy for sale for resale is an Eligible Customer under the Tariff. Electric energy sold or produced by such entity may be electric energy produced in Canada, the United States or Mexico; however, such entity is not eligible for transmission service that would be prohibited by Section 212(h)(2) of the US Federal Power Act; and (ii) Any retail customer taking unbundled transmission service for all or part of its energy purchase pursuant to a provincial requirement that the Transmission Provider offer the transmission service, or pursuant to a voluntary offer of such service by the Transmission Provider, is an Eligible Customer under the Tariff.

1.12.1 Energy Resource Interconnection Service

An Interconnection Service that allows the Interconnection Customer to connect its Generating Facility to the Transmission Provider's Transmission System to be eligible to deliver the Generating Facility's electric output using the existing firm or non-firm capacity of the Transmission Provider's Transmission System on an as available basis. Energy Resource Interconnection Service in and of itself does not convey Transmission Service.

1.13 Facilities Study

An engineering study conducted by the Transmission Provider to determine the required modifications to the Transmission Provider's Transmission System, including the cost and scheduled completion date for such modifications, that will be required to provide the requested transmission service.

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1.14 Firm Point-To-Point Transmission Service

Transmission Service under this Tariff that is reserved and/or scheduled between specified Points of Receipt and Delivery pursuant to Part II of this Tariff.

1.15 Good Utility Practice

Any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region, including any reliability standards adopted by the Commission pursuant to section 125.2 of the British Columbia Utilities Commission Act.

1.16 Interruption

A reduction in non-firm transmission service due to economic reasons pursuant to Section 14.7.

1.17 Load Ratio Share

Ratio of a Network Customer's monthly Network Load to the Transmission Provider's monthly Transmission System load computed in accordance with Sections 34.2 and 34.3 of the Network Integration Transmission Service under Part III of the Tariff and calculated on a monthly basis.

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1.18 Load Shedding

The systematic reduction of system demand by temporarily decreasing load in response to transmission system or area capacity shortages, system instability, or voltage control considerations under Part III of the Tariff.

1.19 Long-Term Firm Point-To-Point Transmission Service

Firm Point-To-Point Transmission Service under Part II of the Tariff with a term of one (1) year or more.

1.20 Reserved

1.21 Network Customer

An entity receiving transmission service pursuant to the terms of the Transmission Provider's Network Integration Transmission Service under Part III of the Tariff.

1.22 Network Integration Transmission Service

The transmission service provided under Part III of the Tariff.

1.23 Network Load

The load that a Network Customer designates for Network Integration Transmission Service under Part III of the Tariff. The Network Customer's Network Load shall include all load served by the output of any Network Resources designated by the Network Customer. A Network Customer may elect to designate less than its total load as Network Load. If a Network Customer designates only part of the load at a discrete Point of Delivery, the Network Customer and the Transmission Provider must agree on a

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metering procedure to separate the part of load that is served by the Network Customer's NITS and the part of load that is served by a separate Point-To-Point Transmission Service. Where an Eligible Customer has elected not to designate a particular load at discrete points of delivery as Network Load, the Eligible Customer is responsible for making separate arrangements under Part II of the Tariff for any Point-To-Point Transmission Service that may be necessary for such non-designated load.

1.24 Network Operating Agreement

An executed agreement that contains the terms and conditions under which the Network Customer shall operate its facilities and the technical and operational matters associated with the implementation of Network Integration Transmission Service under Part III of the Tariff.

1.25 Network Operating Committee

A group made up of representatives from the Network Customer(s) and the Transmission Provider established to coordinate operating criteria and other technical considerations required for implementation of Network Integration Transmission Service under Part III of this Tariff.

1.26 Network Resource

Any designated generating resource owned, purchased or leased by a Network Customer under the Network Integration Transmission Service Tariff. Network Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Network Customer's

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Network Load on a non-interruptible basis, except for purposes of fulfilling obligations under a reserve sharing program.

1.26.1 Network Resource Interconnection Service

An Interconnection Service that allows the Interconnection Customer to integrate its Generating Facility with the Transmission Provider's Transmission System in the same manner as all other Network Resources. Network Resource Interconnection Services in and of itself does not convey Transmission Service.

1.27 Network Upgrades

Modifications or additions to transmission-related facilities that are integrated with and support the Transmission Provider's overall Transmission System for the general benefit of all users of such Transmission System.

1.28 Non-Firm Point-To-Point Transmission Service

Point-To-Point Transmission Service under the Tariff that is reserved and scheduled on an as-available basis and is subject to Curtailment or Interruption as set forth in Section 14.7 under Part II of this Tariff. Non-Firm Point-To-Point Transmission Service is available on a stand-alone basis for periods ranging from one (1) hour to less than one (1) year.

1.29 Non-Firm Sale

An energy sale for which receipt or delivery may be interrupted for any reason or no reason, without liability on the part of either the buyer or seller.

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1.30 Open Access Same-Time Information System (OASIS)

An information system operated by or for the Transmission Provider that satisfies North American industry standards (including those prescribed for US electric utilities by the Federal Energy Regulatory Commission (FERC)) and all Commission requirements (including standards of conduct).

1.31 Part I

Tariff Definitions and Common Service Provisions contained in Sections 2 through 12.

1.32 Part II

Tariff Sections 13 through 27 pertaining to Point-To-Point Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.33 Part III

Tariff Sections 28 through 35 pertaining to Network Integration Transmission Service in conjunction with the applicable Common Service Provisions of Part I and appropriate Schedules and Attachments.

1.34 Parties

The Transmission Provider and the Transmission Customer receiving service under the Tariff.

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1.35 Point(s) of Delivery

Point(s) on the Transmission Provider's Transmission System where capacity and energy transmitted by the Transmission Provider will be made available to the Receiving Party under Part II of the Tariff. The Point(s) of Delivery shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

1.36 Point(s) of Receipt

Point(s) of interconnection on the Transmission Provider's Transmission System where capacity and energy will be made available to the Transmission Provider by the Delivering Party under Part II of the Tariff. The Point(s) of Receipt shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

1.37 Point-To-Point Transmission Service

The reservation and transmission of capacity and energy on either a firm or non-firm basis from the Point(s) of Receipt to the Point(s) of Delivery under Part II of the Tariff.

1.38 Power Purchaser

The entity that is purchasing the capacity and energy to be transmitted under the Tariff.

1.39 Pre-Confirmed Application

An Application that commits the Eligible Customer to execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service.

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1.40 Receiving Party

The entity receiving the capacity and energy transmitted by the Transmission Provider to Point(s) of Delivery.

1.41 Regional Transmission Group (RTG)

A voluntary organization of transmission owners, transmission users and other entities formed to efficiently coordinate transmission planning (and expansion), operation and use on a regional (and interregional) basis.

1.42 Reserved Capacity

The maximum amount of capacity of energy that the Transmission Provider agrees to transmit for the Transmission Customer over the Transmission Provider's Transmission System between the Point(s) of Receipt and the Point(s) of Delivery under Part II of the Tariff. Reserved Capacity shall be expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis.

1.43 Service Agreement

The initial agreement and any amendments or supplements thereto entered into by the Transmission Customer and the Transmission Provider for Long-Term Firm Point-To-Point or Network Integration Transmission Service under the Tariff, and any requests for Short-Term Firm or Non-Firm Point-To-Point Transmission Service made pursuant to an Umbrella Agreement and confirmed over the Transmission Provider's OASIS.

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1.44 Service Commencement Date

The date the Transmission Provider begins to provide service pursuant to the terms of an executed Service Agreement, or the date the Transmission Provider begins to provide service in accordance with Section 15.3 or Section 29.1 under the Tariff.

1.45 Short-Term Firm Point-To-Point Transmission Service

Firm Point-To-Point Transmission Service under Part II of the Tariff with a minimum term of one (1) hour and a maximum term of less than one (1) year.

1.46 Reserved

1.47 System Impact Study

An assessment by the Transmission Provider of (i) the adequacy of the Transmission System to accommodate a request for either Firm Point-To-Point Transmission Service or Network Integration Transmission Service; and (ii) whether any additional costs may be incurred in order to provide transmission service.

1.48 Third-Party Sale

Any sale for resale to a Power Purchaser that is not designated as part of Network Load under the Network Integration Transmission Service.

1.49 Transmission Customer

Any Eligible Customer (or its Designated Agent) that (i) executes a Service Agreement;(ii) receives service under an Umbrella Agreement; or (iii) requests in writing that theTransmission Provider file with the Commission, a proposed unexecuted Service

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Agreement to receive transmission service under Part II of the Tariff. This term is used in the Part I Common Service Provisions to include customers receiving transmission service under Part II and Part III of this Tariff.

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1.49.1 Transmission Owner

The British Columbia Hydro and Power Authority.

1.50 Transmission Provider

The British Columbia Transmission Corporation (BCTC) or its Designated Agent<u>Hydro</u> and Power Authority (BC Hydro).

1.51 Transmission Provider's Monthly Transmission System Peak

The maximum firm usage expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis, of the Transmission Provider's Transmission System in a calendar month.

1.52 Transmission Service

Point-To-Point Transmission Service provided under Part II of the Tariff on a firm and non-firm basis and Network Integration Transmission Service provided under Part III of the Tariff.

1.53 Transmission System

The facilities owned, controlled or operated by the Transmission Provider that are used to provide transmission service under Part II and Part III of the Tariff.

1.54 Umbrella Agreement

An agreement between the Transmission Provider and an Eligible Customer which provides all the information necessary to enable such Eligible Customer to receive

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Short-Term Firm or Non-Firm Point-To-Point Transmission Service under this Tariff without the necessity of first executing a Service Agreement. A form of Umbrella Agreement is attached as Attachment A.

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1.55 Working Day

Any day in the week excluding weekends and as specified in the Transmission Provider's business practices.

1.56 \$ or Dollar

All dollar amounts in the Tariff are in Canadian dollars unless otherwise specified.

2. Renewal Procedures

2.1 Reserved

2.2 Reservation Priority For Existing Firm Service Customers

Unless stated otherwise in the initial Service Agreement in accordance with Section 5 of Attachment B, existing firm service customers with a contract term of five-years or more, have the right to continue to take transmission service from the Transmission Provider when the contract expires, rolls over or is renewed. If at the end of the contract term, the Transmission Provider's Transmission System cannot accommodate all of the requests for transmission service, the existing firm service customer must agree to accept a contract term at least equal to a competing request by any new Eligible Customer and to pay the current just and reasonable rate, as approved by the Commission, for such service; provided that, the firm service customer shall have a right of first refusal at the end of such service only if the new contract is for five years or more. The existing firm service customer must provide notice to the Transmission Provider whether it will exercise its right of first refusal no less than one year prior to the expiration date of its transmission service agreement. Subject to Attachment P this transmission reservation

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priority for existing firm service customers is an ongoing right that may be exercised at the end of all firm contract terms of five years or longer.

2.2.1 Transition

Service agreements subject to a right of first refusal entered into prior to the date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission or associated with a transmission service request received prior to the date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission, unless terminated, will become subject to the five year/one year requirement on the first rollover date after the date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission; provided that, the one-year notice requirement shall apply to such service agreements with five years or more left in their terms as of the the-date new rate schedules of the Transmission Provider adopting the reformed rollover adopting the reformed rollover language herein are made effective by the Commission; provided that, the one-year notice requirement shall apply to such service agreements with five years or more left in their terms as of the the-date new rate schedules of the Transmission Provider adopting the reformed rollover language herein are made effective by the Commission.

3. Ancillary Services

Ancillary Services are needed with transmission service to maintain reliability within and among the Control Areas affected by the transmission service. The Transmission Provider is required to provide, and the Transmission Customer is required to purchase, the following Ancillary Services: (i) Scheduling, System Control and Dispatch; and (ii) Reactive Supply and Voltage Control from Generation or other Sources.

The Transmission Provider is required to offer to provide the following Ancillary Services only to the Transmission Customer serving load within the Transmission Provider's

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Control Area: (i) Regulation and Frequency Response; (ii) Energy Imbalance; (iii) Operating Reserve - Spinning; and (iv) Operating Reserve – Supplemental. The Transmission Customer serving load within the Transmission Provider's Control Area is required to acquire these Ancillary Services, whether from the Transmission Provider, from a third party, or by self-supply.

The Transmission Customer may not decline the Transmission Provider's offer of Ancillary Services unless it demonstrates that it has acquired the Ancillary Services from another source. The Transmission Customer must inform the Transmission Provider which Ancillary Services it will purchase from the Transmission Provider prior to the commencement of service requested. A Transmission Customer that exceeds its firm reserved capacity at any Point of Receipt or Point of Delivery or an Eligible Customer that uses Transmission Service at a Point of Receipt or Point of Delivery that it has not reserved is required to pay for all of the Ancillary Services identified in this section that were provided by the Transmission Provider associated with the unreserved service. The Transmission Customer or Eligible Customer will pay for Ancillary Services based on the amount of transmission service it used but did not reserve.

The Transmission Provider shall specify the rate treatment and all related terms and conditions in the event of an unauthorized use of Ancillary Services by the Transmission Customer in the applicable Transmission Provider Rate Schedule 103 through Rate Schedule 109.09.

The specific Ancillary Services, prices and/or compensation methods are described on the Schedules that are attached to and made a part of the Tariff. Three principal requirements apply to discounts for Ancillary Services provided by the Transmission Provider in conjunction with its provision of transmission service as follows: (i) any offer

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of a discount made by the Transmission Provider must be announced to all Eligible Customers solely by posting on the OASIS; (ii) any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an Affiliate's use) must occur solely by posting on the OASIS; and (iii) once a discount is negotiated, details must be immediately posted on the OASIS. A discount agreed upon for an Ancillary Service must be offered for the same period to all Eligible Customers on the Transmission Provider's system. Sections 3.1 through 3.6 below list the six Ancillary Services.

3.1 Scheduling, System Control and Dispatch Service

The rates and/or methodology are described in Transmission Provider Rate Schedule 103 and are also set out in Schedule 03. The Transmission Provider will provide dynamic scheduling in accordance with Attachment Q-1.

3.2 Reactive Supply and Voltage Control from Generation or Other Sources Service

The rates and/or methodology are described in Transmission ProviderRate Schedule 104 and are also set out in Schedule 04.

3.3 Regulation and Frequency Response Service

Where applicable the rates and/or methodology are described in Transmission Provider Rate Schedule 105 and are also set out in Schedule 05.

3.4 Energy Imbalance Service

Where applicable the rates and/or methodology are described in Transmission Provider Rate Schedule <u>106 and are also set out in Schedule</u> 06.

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3.5 Operating Reserve - Spinning Reserve Service

Where applicable the rates and/or methodology are described in Transmission Provider Rate Schedule 107 and are also set out in Schedule 07.

3.6 Operating Reserve - Supplemental Reserve Service

Where applicable the rates and/or methodology are described in Transmission Provider Rate Schedule 108 and are also set out in Schedule 08.

4. Open Access Same-Time Information System (OASIS)

The Transmission Provider will follow North American industry standard terms and conditions (including those prescribed for US electric utilities by the FERC) and Commission requirements (including standards of conduct) in implementing, operating or utilizing the OASIS. In the event available transfer capability as posted on the OASIS is insufficient to accommodate a request for firm transmission service, additional studies may be required as provided by this Tariff pursuant to Sections 19 and 32.

The Transmission Provider shall post on OASIS and its public website an electronic link to all rules, standards and practices that (i) relate to the terms and conditions of transmission service, (ii) are not subject to a North American Energy Standards Board (NAESB) copyright restriction, and (iii) are not otherwise included in this Tariff. The Transmission Provider shall post on OASIS and on its public website an electronic link to the NAESB website where any rules, standards and practices that are protected by copyright may be obtained. The Transmission Provider shall also post on OASIS and its public website an electronic link to a statement of the process by which the Transmission Provider shall add, delete or otherwise modify the rules, standards and practices that are

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not included in this tariff. Such process shall set forth the means by which the Transmission Provider shall provide reasonable advance notice to Transmission Customers and Eligible Customers of any such additions, deletions or modifications, the associated effective date, and any additional implementation procedures that the Transmission Provider deems appropriate.

5. Jurisdiction

5.1 Applicable Law

This Tariff shall be governed by and construed in accordance with the laws of the Province of British Columbia.

5.2 Modification of the Tariff

The rates, terms and conditions of this Tariff are subject to decisions, orders, rules and regulations of the Commission and may be amended from time to time.

5.3 Export Permits or Licence

The Transmission Provider may refuse to provide Transmission Service to facilitate the export of electricity from Canada if <u>BCTCBC Hydro</u> has not been supplied with a copy of the exporter's permit or licence issued by the National Energy Board.

6. Reciprocity

A Transmission Customer receiving transmission service under this Tariff agrees to provide comparable transmission service that it is capable of providing to the Transmission OwnerProvider on similar terms and conditions over facilities used for the

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transmission of electric energy owned, controlled or operated by the Transmission Customer and over facilities used for the transmission of electric energy owned, controlled or operated by the Transmission Customer's corporate Affiliates. A Transmission Customer that is a member of, or takes transmission service from, a power pool, Regional Transmission Group, Regional Transmission Organization (RTO), Independent System Operator (ISO) or other transmission organization also agrees to provide comparable transmission service to the transmission-owning members of such power pool and Regional Transmission Group, RTO, ISO or other transmission organization on similar terms and conditions over facilities used for the transmission of electric energy owned, controlled or operated by the Transmission Customer and over facilities used for the transmission of electric energy owned, controlled or operated by the Transmission Customer's corporate Affiliates.

This reciprocity requirement applies not only to the Transmission Customer that obtains transmission service under the Tariff, but also to all parties to a transaction that involves the use of transmission service under the Tariff, including the power seller, buyer and any intermediary, such as a power marketer. This reciprocity requirement also applies to any Eligible Customer that owns, controls or operates transmission facilities that uses an intermediary, such as a power marketer, to request transmission service under the Tariff. If the Transmission Customer does not own, control or operate transmission facilities, it must include in its Application a sworn statement of one of its duly authorized officers or other representatives that the purpose of its Application is not to assist an Eligible Customer to avoid the requirements of this provision.

The requirements of this Section may be waived by the Transmission Provider for good cause shown.

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7. Billing and Payment

7.1 Billing Procedure

Within a reasonable time after the first day of each month, the Transmission Provider shall submit an invoice to the Transmission Customer for the charges for all services furnished under the Tariff during the preceding month. The invoice shall be paid by the Transmission Customer within twenty (20) Calendar Days of receipt. All payments shall be made in immediately available funds payable to the Transmission Provider, or by wire transfer to a bank named by the Transmission Provider.

7.2 Interest on Unpaid Balances

Interest on any unpaid amounts (including amounts placed in escrow) shall be calculated based on the average prime rate of procedures defined in the Transmission Provider's lead bank plus two (2) percent for the applicable period. Business Practices. Interest on delinquent amounts shall be calculated from the due date of the bill to the date of payment. When payments are made by mail, bills shall be considered as having been paid on the date of receipt by the Transmission Provider.

7.3 Customer Default

In the event the Transmission Customer fails, for any reason other than a billing dispute as described below, to make payment to the Transmission Provider on or before the due date as described in Section 7.1, and such failure of payment is not corrected within thirty (30) Calendar Days after the Transmission Provider notifies the Transmission Customer to cure such failure, a default by the Transmission Customer shall be deemed to exist. Upon the occurrence of a default, the Transmission Provider may suspend

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service to the customer in accordance with Attachment L. In the event of a billing dispute between the Transmission Provider and the Transmission Customer, the Transmission Provider will continue to provide service under the Service Agreement or Umbrella Agreement as long as the Transmission Customer (i) continues to make all payments not in dispute, and (ii) pays into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If the Transmission Customer fails to meet these two requirements for continuation of service, then the Transmission Provider may provide notice to the Transmission Customer of its intention to suspend service in sixty (60) Calendar Days.

- 8. Reserved
- 8.1 Reserved
- 8.2 Reserved

8. Accounting for the Transmission Provider's Use of the Tariff

The Transmission Provider shall record the following amounts, as outlined below.

8.1 <u>Transmission Revenues</u>

Include in a separate operating revenue account or subaccount the revenues it receives from Transmission Service when making Third-Party Sales under Part II of the Tariff.

8.2 <u>Study Costs and Revenues</u>

Include in a separate transmission operating expense account or subaccount, costs properly chargeable to expenses that are incurred to perform any System Impact

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Studies or Facilities Studies which the Transmission Provider conducts to determine if it must construct new transmission facilities or upgrades necessary for its own uses, including making Third-Party Sales under the Tariff; and include in a separate operating revenue account or subaccount the revenues received for System Impact Studies or Facilities Studies performed when such amounts are separately stated and identified in the Transmission Customer's billing under the Tariff.

9. Regulatory Filings

Nothing contained in the Tariff or any Service Agreement shall be construed as affecting in any way the right of the Transmission Provider to unilaterally make application to the Commission for a change in rates, terms and conditions, charges, classification of service, Service Agreement, rule or regulation pursuant to the British Columbia Utilities Commission Act and the Commission's decisions, orders, rules and regulations promulgated thereunder.

Nothing contained in the Tariff or any Service Agreement shall be construed as affecting in any way the ability of any Party receiving service under the Tariff to exercise its rights under the British Columbia Utilities Commission Act and pursuant to the Commission's decisions, orders, rules and regulations promulgated thereunder.

10. Force Majeure, Indemnification, and Limitation of Liability

10.1 Force Majeure

An event of Force Majeure means any act of God, labour disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any Curtailment, order, regulation or restriction imposed by

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governmental military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include an act of negligence or intentional wrongdoing. Neither the Transmission Provider nor the Transmission Customer will be considered in default as to any obligation under this Tariff if prevented from fulfilling the obligation due to an event of Force Majeure. However, a Party whose performance under this Tariff is hindered by an event of Force Majeure shall make all reasonable efforts to perform its obligations under this Tariff.

10.2 Indemnification

The Transmission Customer shall at all times indemnify, defend, and save the Transmission Provider and Transmission Owner-harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, legal fees, and all other obligations by or to third parties, arising out of or resulting from the Transmission Provider's performance of its obligations under this Tariff on behalf of the Transmission Customer, except in cases of gross negligence or intentional wrongdoing by the Transmission Provider or Transmission Owner. If the Transmission Provider does not, that will not affect the indemnification of the Transmission Owner(s) under this Section 10.2 and vice-versa.

10.3 Limitation of Liability:

(a) The Transmission Owner shall not be liable, whether based on contract, indemnification, warranty, tort, strict liability or otherwise for any damages whatsoever, including, without limitation, Direct Damages, incidental,

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consequential, punitive, special, exemplary or indirect damages arising or resulting from any act or omission in any way associated with service provided under this Tariff, including, but not limited to, any act or omission that results in an interruption, deficiency or imperfection of service, except to the extent that the Transmission Owner is found liable for gross negligence or intentional misconduct, in which case the Transmission Owner's liability will be limited to Direct Damages. Nothing in this section, however, is intended to affect obligations otherwise provided in agreements between the Transmission Provider and Transmission Owner.

- (b) The Transmission-Provider shall not be liable, whether based on contract, indemnification, warranty, tort, strict liability or otherwise, for any damages whatsoever, including, without limitation, Direct Damages, incidental, consequential, punitive, special, exemplary or indirect damages arising or resulting from any act or omission in any way associated with service provided under this Tariff, including, but not limited to, any act or omission that results in an interruption, deficiency or imperfection of service, except to the extent that the Transmission Provider is found liable for gross negligence or intentional misconduct, in which case the Transmission Provider's liability will be limited to Direct Damages. Nothing in this section, however, is intended to affect obligations otherwise provided in agreements between the Transmission Provider and Transmission Owner.
- (c) Neither the Transmission Owner nor theb) The Transmission Provider shall not be liable for damages arising out of services provided under this Tariff, including, but not limited to, any act or omission that results in an interruption, deficiency or

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imperfection of service, occurring as a result of conditions or circumstances beyond the control of the Transmission Owner or Transmission Provider, as applicable, or resulting from electric system design common to the domestic electric utility industry or electric system operation practices or conditions common to the domestic electric utility industry.

11. Creditworthiness

The Transmission Provider's creditworthiness procedures are specified in Attachment L.

12. Dispute Resolution Procedures

12.1 Dispute Resolution Procedures (RTG Members)

Any dispute between the Transmission Provider and a Transmission Customer who is a member in a common RTG with the Transmission Provider and that involves Transmission Service under this Tariff (excluding Applications for rate changes or other changes to this Tariff, or to any Service Agreement or Umbrella Agreement under this Tariff, which shall be presented directly to the Commission for resolution) shall be resolved pursuant to the provisions of the applicable RTG Governing Agreement.

12.2 Internal Dispute Resolution Procedures (Non-RTG Members)

Any dispute between the Transmission Provider and a Transmission Customer who is not a member in a common RTG with the Transmission Provider and involving transmission service under the Tariff (excluding applications for rate changes or other changes to the Tariff, or to any Service Agreement or Umbrella Agreement entered into under the Tariff, which shall be presented directly to the Commission for resolution) shall be referred to a designated senior representative of the Transmission Provider and a

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senior representative of the Transmission Customer for resolution on an informal basis as promptly as practicable. In the event the designated representatives are unable to resolve the dispute within thirty (30) Calendar Days or such other period as the Parties may agree upon by mutual agreement, such dispute may be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below.

12.2.1 Consolidation of Arbitrations related to the Allocation of Transfer Capability

If any dispute related to the calculation, allocation, sale or award of transfer capability, including a portion of transfer capability, on the Transmission System is submitted to arbitration, then all disputes related to the calculation, allocation, sale or award of that same transfer capability, including the same portion of that transfer capability, on the Transmission System, shall be submitted to arbitration and consolidated into a single arbitration. In the case of such a dispute, if the transfer capability at issue has been allocated to a Transmission Customer, that Transmission Customer may become a Party to the arbitration.

12.3 External Arbitration Procedures (Non-RTG Members)

- (a) Any arbitration initiated under the Tariff between Transmission Provider and a Transmission Customer who is not a member in a common RTG with the Transmission Provider shall be conducted in British Columbia before a single neutral arbitrator appointed by the Parties.
- (b) In the case of a non-consolidated arbitration, if the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the referral of the dispute to arbitration, each Party shall choose one arbitrator who shall sit on a three-member

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arbitration panel. The two arbitrators so chosen shall within twenty (20) Calendar Days select a third arbitrator to chair the arbitration panel.

- (c) In the case of a consolidated arbitration, if the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the referral of the dispute to arbitration, the Parties will provide a notice to the British Columbia International Commercial Arbitration Centre in Vancouver, British Columbia (the Centre) to appoint an arbitrator pursuant to the Domestic Commercial Arbitration Rules of Procedure of the Centre as amended from time to time.
- The arbitrator(s) shall be knowledgeable in electric utility matters, including electric (d) transmission and bulk power issues, and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall conduct the arbitration in British Columbia and shall provide each of the Parties an opportunity to be heard and. except as otherwise provided herein, shall generally conduct the arbitration in accordance with the Commercial Arbitration Act of British Columbia.

12.4 **Arbitration Decisions**

Unless otherwise agreed or, in the case where Transmission Provider and Transmission Customer are members in a common RTG except as otherwise provided in an applicable RTG Governing Agreement, the arbitrator(s) shall render a decision within ninety (90) Calendar Days of appointment and shall notify the Parties in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of the Tariff and any Service Agreement or Umbrella Agreement entered into under the Tariff and shall have no power to modify or change any of the above in any manner. The decision of the arbitrator(s) shall be final and

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binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the

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_arbitrator(s), or the decision itself, violated the standards of the Commercial Arbitration Act of British Columbia. The final decision of the arbitrator must also be filed with the Commission if it affects the Transmission Provider's rates, terms and conditions of service or facilities.

12.5 Costs

Except as may be otherwise provided in an RTG Governing Agreement applicable to the Transmission Provider and a Transmission Customer who is a member in a common RTG with the Transmission Provider, each Party shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable:

- (a) the cost of the arbitrator chosen by the Party to sit on the three member panel and one half of the cost of the third arbitrator chosen;
- (b) one half the cost of the single arbitrator jointly chosen by the Parties; or
- (c) in a consolidated arbitration, an equal share of the cost of the single arbitrator jointly chosen by the Parties or appointed by the Centre.

12.6 Rights Under The British Columbia Utilities Commission Act

Nothing in this section shall restrict the rights of any party to file a Complaint with the Commission under relevant provisions of the British Columbia Utilities Commission Act.

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PART II. POINT-TO-POINT TRANSMISSION SERVICE

Preamble

The Transmission Provider will provide Firm and Non-Firm Point-To-Point Transmission Service pursuant to the applicable terms and conditions of this Tariff. Point-To-Point Transmission Service is for the receipt of capacity and energy at designated Point(s) of Receipt and the transfer of such capacity and energy to designated Point(s) of Delivery. Customers taking Point-To-Point Transmission Service must obtain Ancillary Services pursuant to Section 3.

13. Nature of Firm Point-To-Point Transmission Service

13.1 Term

The minimum term of Firm Point-To-Point Transmission Service shall be one hour and the maximum term shall be specified in the Service Agreement.

13.2 Reservation Priority

Subject to Section 15.8 and Section 15.9, Long-Term Firm Point-To-Point Transmission Service shall be available on a first-come, first-served basis i.e., in the chronological sequence in which each Transmission Customer has reserved service. Reservations for Short-Term Firm Point-To-Point Transmission Service will be conditional based upon the length of the requested transaction. If the Transmission System becomes oversubscribed, requests for longer term service may preempt requests for shorter term service up to the following deadlines: one Calendar Day before the commencement of daily service, one week before the commencement of weekly service, and one calendar month before the commencement of monthly service. Before the conditional reservation

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deadline, if available transfer capability is insufficient to satisfy all Applications, an Eligible Customer with a reservation for shorter term service has the right of first refusal to match any subsequent longer term reservation before losing its reservation priority. A longer term competing request for Short-Term Firm Point-To-Point Transmission Service will be granted if the Eligible Customer with the right of first refusal does not agree to match the competing request within 24 hours (or earlier if necessary to comply with the scheduling deadlines provided in Section 13.8 or as determined by the Transmission Provider) from being notified by the Transmission Provider of a longer-term competing request for Short-Term Firm Point-To-Point Transmission Service. After the conditional reservation deadline, service will commence pursuant to the terms of Part II of the Tariff. Firm Point-To-Point Transmission Service under the Tariff. Reservation priority over Non-Firm Point-To-Point Transmission Service will be determined on the same basis as Network Customers. Reservation priorities for existing firm service customers are provided in Section 2.2.

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13.3 Reserved

13.3 Use of Firm Transmission Service by the Transmission Provider

<u>The Transmission Provider will be subject to the rates, terms and conditions of Part II of</u> <u>the Tariff when making Third-Party Sales. The Transmission Provider will maintain</u>

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separate accounting, pursuant to Section 8, for any use of the Point-To-Point Transmission Service to make Third-Party Sales.

13.4 Service Agreements

Subject to Attachment M-2, the Transmission Provider shall offer a standard form Long-Term Firm Point-To-Point Transmission Service Agreement (Attachment B) to an Eligible Customer when it submits a Completed Application for Long-Term Firm Point-To-Point Transmission Service. Subject to Attachment M-2, the Transmission Provider shall offer a standard form Umbrella Agreement (Attachment A) to an Eligible Customer when it first submits a Completed Application for Short-Term Firm Point-To-Point Transmission Service pursuant to the Tariff. Executed Service Agreements and Umbrella Agreements that contain the information required under the Tariff shall be filed with the Commission.

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13.5 Transmission Customer Obligations for Facility Additions or Redispatch Costs

In cases where the Transmission Provider determines that the Transmission System is not capable of providing Long-Term Firm Point-To-Point Transmission Service without: (i) degrading or impairing the reliability of service to Network Customers and other Transmission Customers taking Long-Term Firm Point-To-Point Transmission Service; or (ii) interfering with the Transmission Provider's ability to meet prior firm contractual commitments to others, the Transmission Provider will be obligated to expand or upgrade its Transmission System pursuant to the terms of Section 15.4. The Transmission Customer must agree to compensate the Transmission Provider for any necessary transmission facility additions pursuant to the terms of Section 27. To the extent the Transmission Provider can relieve any system constraint by procuring generationredispatching the Transmission Provider's resources for redispatch, it shall do so, provided that the Eligible Customer agrees to compensate the Transmission Provider pursuant to the terms of Section 27 and agrees to either (i) compensate the Transmission Provider for any necessary transmission facility additions or (ii) accept the service subject to a biennial reassessment by the Transmission Provider of redispatch requirements as described in Section 15.4. Any redispatch, Network Upgrade or Direct Assignment Facilities costs to be charged to the Transmission Customer on an incremental basis under the Tariff will be specified in the Service Agreement prior to initiating service.

13.6 Curtailment of Firm Transmission Service

In the event that a Curtailment on the Transmission Provider's Transmission System, or a portion thereof, is required to maintain reliable operation of such system, Curtailments will be made on a non-discriminatory basis to the transaction(s) that effectively relieve

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the constraint. If multiple transactions require Curtailment, to the extent practicable and consistent with Good Utility Practice, the Transmission Provider will curtail service to Network Customers and Transmission Customers taking Firm Point-To-Point Transmission Service on an equal basis. All Curtailments will be made on a non-discriminatory basis, however, Non-Firm Point-To-Point Transmission Service shall be subordinate to Firm Transmission Service. When the Transmission Provider determines that an electrical emergency exists on its Transmission Service, the Transmission Customer shall make the required reductions upon request of the Transmission Provider in part, any Firm Transmission Service provided under the Tariff when, in the Transmission Provider's sole discretion, an emergency or other unforeseen condition impairs or degrades the reliability of its Transmission System. The Transmission Provider will notify all affected Transmission Customers in a timely manner of any scheduled Curtailments.

13.7 Classification of Firm Transmission Service

(a) Transmission Customer taking Firm Point-To-Point Transmission Service may: (i) change its Point(s) of Receipt and Point(s) of Delivery to obtain service on a non-firm basis consistent with the terms of Section 22.1; or (ii) request a modification of the Points of Receipt or Delivery on a firm basis pursuant to the terms of Section 22.2.

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- (b) The Transmission Customer may purchase transmission service to make sales of capacity and energy from multiple generating units that are on the Transmission Provider's Transmission System. For such a purchase of transmission service, the resources will be designated as multiple Points of Receipt, unless the multiple generating units are at the same generating plant in which case the units would be treated as a single Point of Receipt.
- The Transmission Provider shall provide firm deliveries of capacity and energy (c) from the Point(s) of Receipt to the Point(s) of Delivery. Each Point of Receipt at which firm transmission capacity is reserved by the Transmission Customer shall be set forth in the Firm Point-To-Point Service Agreement for Long-Term Firm Transmission Service along with a corresponding capacity reservation associated with each Point of Receipt. Points of Receipt and corresponding capacity reservations shall be as mutually agreed upon by the Parties for Short-Term Firm Transmission. Each Point of Delivery at which firm transfer capability is reserved by the Transmission Customer shall be set forth in the Long-Term Firm Point-To-Point Service Agreement for Long-Term Firm Transmission Service along with a corresponding capacity reservation associated with each Point of Delivery. Points of Delivery and corresponding capacity reservations shall be as mutually agreed upon by the Parties for Short-Term Firm Transmission. The greater of either: (i) the sum of the capacity reservations at the Point(s) of Receipt; or (ii) the sum of the capacity reservations at the Point(s) of Delivery shall be the Transmission Customer's Reserved Capacity. The Transmission Customer will be billed for its Reserved Capacity, in accordance with the terms of Schedule 01 which combines the rates of the Transmission Owner under Rate Schedule 3001 and the rates of the Transmission Provider under Rate Schedule 101. The Transmission Customer may

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not exceed its firm capacity reserved at each Point of Receipt and each Point of Delivery except as otherwise specified in Section 22. In the event that a Transmission Customer (including Third-Party Sales by the Transmission Provider) exceeds its firm reserved capacity at any Point of Receipt or Point of Delivery, the Transmission Customer shall pay to the Transmission Provider the applicable charges payable under the Transmission Provider's Rate Schedule 101 and the Transmission Owner's Rate Schedule 3001, as set out in Schedule 01, for the amount of capacity that exceeded the firm reserved capacity or uses Transmission Service at a Point of Receipt or Point of Delivery that it has not reserved.

13.8 Scheduling of Firm Point-To-Point Transmission Service

Schedules for the Transmission Customer's Firm Point-To-Point Transmission Service must be submitted to the Transmission Provider no later than 10:00 a.m. or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider of the day prior to commencement of such service. Schedules submitted after 10:00 a.m. will be accommodated, if practicable. Hour-to-hour schedules of any capacity and energy that is to be delivered must be stated in increments of 1,000 kW per hour or a reasonable increment that is generally accepted in the region and is consistently adhered to by the Transmission Provider. Transmission Customers within the Transmission Provider's service area with multiple requests for Transmission Service at a Point of Receipt, each of which is under 1,000 kW per hour, may consolidate their service requests at a common point of receipt into units of 1,000 kW per hour for scheduling and billing purposes. Scheduling changes will be permitted up to twenty (20) minutes or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider before the start of the next clock hour provided that the Delivering Party and Receiving Party also agree to the schedule

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modification. The Transmission Provider will furnish to the Delivering Party's system operator, hour-to-hour schedules equal to those furnished by the Receiving Party (unless reduced for losses) and shall deliver the capacity and energy provided by such schedules. Should the Transmission Customer, Delivering Party or Receiving Party revise or terminate any schedule, such party shall immediately notify the Transmission Provider, and the Transmission Provider shall have the right to adjust accordingly the schedule for capacity and energy to be received and to be delivered.

Nature of Non-Firm Point-To-Point Transmission Service 14.

14.1 Term

Non-Firm Point-To-Point Transmission Service will be available for periods ranging from one (1) hour to less than one (1) year. A Purchaser of Non-Firm Point-To-Point Transmission Service will be entitled to reserve a sequential term of service (such as a sequential monthly term without having to wait for the initial term to expire before requesting another monthly term) so that the total time period for which the reservation applies is less than one (1) year subject to the requirements of Section 18.3.

14.2 **Reservation Priority**

Non-Firm Point-To-Point Transmission Service shall be available from transfer capability in excess of that needed for reliable service to Network Customers and other Transmission Customers taking Long-Term and Short-Term Firm Point-To-Point Transmission Service. A higher priority will be assigned to reservations with a longer duration of service. In the event the Transmission System is constrained, competing requests of equal duration will be prioritized based on the highest price offered by the Eligible Customer for the Transmission Service. Eligible Customers that have already

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reserved shorter term service have the right of first refusal to match any longer term reservation before being preempted. A longer term competing request for Non-Firm Point-To-Point Transmission Service will be granted if the Eligible Customer with the right of first refusal does not agree to match the competing request: (i) immediately for hourly Non-Firm Point-To-Point Transmission Service after notification by the Transmission Provider; and (ii) within 24 hours (or earlier if necessary to comply with the scheduling deadlines provided in Section 14.6) for Non-Firm Point-To-Point Transmission Service other than hourly transactions after notification by the Transmission Provider. Transmission service for Network Customers from resources other than designated Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service. Non-Firm Point-To-Point Transmission Service over secondary Point(s) of Receipt and Point(s) of Delivery will have the lowest reservation priority under the Tariff.

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14.3 Reserved

14.3 Use of Non-Firm Point-To-Point Transmission Service by the Transmission <u>Provider</u>

<u>The Transmission Provider will be subject to the rates, terms and conditions of Part II of</u> <u>the Tariff when making Third-Party Sales.</u> The Transmission Provider will maintain <u>separate accounting, pursuant to Section 8, for any use of Non-Firm Point-To-Point</u> <u>Transmission Service to make Third-Party Sales.</u>

14.4 Umbrella Agreements

The Transmission Provider shall offer a standard form Umbrella Agreement (Attachment A) to an Eligible Customer when it first submits a Completed Application for Non-Firm Point-To-Point Transmission Service pursuant to the Tariff.

14.5 Classification of Non-Firm Point-To-Point Transmission Service

Non-Firm Point-To-Point Transmission Service shall be offered under terms and conditions contained in Part II of the Tariff. The Transmission Provider undertakes no obligation under the Tariff to plan its Transmission System in order to have sufficient capacity for Non-Firm Point-To-Point Transmission Service. Parties requesting Non-Firm Point-To-Point Transmission Service for the transmission of firm power do so with the full realization that such service is subject to availability and to Curtailment or Interruption under the terms of the Tariff. In the event that a Transmission Customer (including Third-Party Sales by the Transmission Provider) exceeds its non-firm capacity reservation, the Transmission Customer shall pay to the Transmission Provider the

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applicable charges payable under the Transmission Provider's Rate Schedule 102 and the Transmission Owner's Rate Schedule 3002, as set out in Schedule 02 01 for the amount of capacity that exceeded the non-firm Reserved Capacity. Non-Firm Point-To-Point Transmission Service shall include transmission of energy on an hourly basis and transmission of scheduled short-term capacity and energy on a daily, weekly or monthly basis, to a maximum term if less than one year for any one Application, in accordance with the terms of <u>Rate</u> Schedule 02<u>1</u> which combines the rates of the Transmission Owner under its Rate Schedule 3002 and the rates of the Transmission Provider under its Rate Schedule 102.

14.6 Scheduling of Non-Firm Point-To-Point Transmission Service

Schedules for Non-Firm Point-To-Point Transmission Service must be submitted to the Transmission Provider no later than 2:00 p.m. or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider of the day prior to commencement of such service. Schedules submitted after 2:00 p.m. will be accommodated, if practicable. Hour-to-hour schedules of energy that is to be delivered must be stated in increments of 1,000 kW per hour or a reasonable increment that is generally accepted in the region and is consistently adhered to by the Transmission Provider. Transmission Customers within the Transmission Provider's service area with multiple requests for Transmission Service at a Point of Receipt, each of which is under 1,000 kW per hour, may consolidate their schedules at a common Point of Receipt into units of 1,000 kW per hour. Scheduling changes will be permitted up to twenty (20) minutes or a reasonable time that is generally accepted in the region and is consistently accepted in the region and is consistently adhered to by the Transmission Provider to by the Transmission Provider to twenty (20) minutes or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider before the start of the next clock hour provided that the Delivering Party and Receiving Party also agree to the

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schedule modification. The Transmission Provider will furnish to the Delivering Party's system operator, hour-to-hour schedules equal to those furnished by the Receiving Party (unless reduced for losses) and shall deliver the capacity and energy provided by such schedules. Should the Transmission Customer, Delivering Party or Receiving Party revise or terminate any schedule, such party shall immediately notify the Transmission Provider, and the Transmission Provider shall have the right to adjust accordingly the schedule for capacity and energy to be received and to be delivered.

14.7 Curtailment or Interruption of Service

The Transmission Provider reserves the right to Curtail, in whole or in part, Non-Firm Point-To-Point Transmission Service provided under the Tariff for reliability reasons when an emergency or other unforeseen condition threatens to impair or degrade the reliability of its Transmission System. The Transmission Provider reserves the right to

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Interrupt, in whole or in part, Non-Firm Point-To-Point Transmission Service provided under the Tariff for economic reasons in order to accommodate: (i) a request for Firm Transmission Service; (ii) a request for Non-Firm Point-To-Point Transmission Service of greater duration; (iii) a request for Non-Firm Point-To-Point Transmission Service of equal duration with a higher price; or (iv) transmission service for Network Customers from non-designated resources The Transmission Provider also will discontinue or reduce service to the Transmission Customer to the extent that deliveries for transmission are discontinued or reduced at the Point(s) of Receipt. Where required, Curtailments or Interruptions will be made on a non-discriminatory basis to the transaction(s) that effectively relieve the constraint, however, Non-Firm Point-To-Point Transmission Service shall be subordinate to Firm Transmission Service. If multiple transactions require Curtailment or Interruption, to the extent practicable and consistent with Good Utility Practice, Curtailments or Interruptions will be made to transactions of the shortest term (e.g. hourly non-firm transactions will be Curtailed or Interrupted before daily non-firm transactions and daily non-firm transactions will be Curtailed or Interrupted before weekly non-firm transactions). Transmission service for Network Customers from resources other than designated Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service under the Tariff. Non-Firm Point-To-Point Transmission Service over secondary Point(s) of Receipt and Point(s) of Delivery will have a lower priority than any Non-Firm Point-To-Point Transmission Service under the Tariff. The Transmission Provider will provide advance notice of Curtailment or Interruption where such notice can be provided consistent with Good Utility Practice.

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15. Service Availability

15.1 General Conditions

The Transmission Provider will provide Firm and Non-Firm Point-To-Point Transmission Service over, on or across its Transmission System to any Transmission Customer that has met the requirements of Section 16.

15.2 Determination of Available Transfer Capability

A description of the Transmission Provider's specific methodology for assessing available transfer capability posted on the Transmission Provider's OASIS (Section 4) is contained in Attachment C of the Tariff. In the event sufficient transfer capability may not exist to accommodate a request for Long-Term Firm Service, the Transmission Provider will respond by performing a System Impact Study

15.3 Initiating Service in the Absence of an Executed Service Agreement or Umbrella Agreement

If the Transmission Provider and the Transmission Customer requesting Firm or Non-Firm Point-To-Point Transmission Service cannot agree on all the terms and conditions of the Point-To-Point Service Agreement or Umbrella Agreement, the Transmission Provider shall file with the Commission, within thirty (30) Calendar Days after the date the Transmission Customer provides written notification directing the Transmission Provider to file, an unexecuted Point-To-Point Service Agreement or Umbrella Agreement containing terms and conditions deemed appropriate by the Transmission Provider for such requested Transmission Service. The Transmission Provider shall commence providing Transmission Service subject to the Transmission Customer

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agreeing to: (i) compensate the Transmission Provider at whatever rate the Commission ultimately determines to be just and reasonable; and (ii) comply with the terms and

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conditions of the Tariff including posting appropriate security deposits in accordance with the terms of Section 17.3.

15.4 Obligation to Provide Transmission Service that Requires Expansion or Modification of the Transmission System, Redispatch or Conditional Curtailment

- (a) If the Transmission Provider determines that it cannot accommodate a Completed Application for Long-Term Firm Point-To-Point Transmission Service because of insufficient capability on its Transmission System, the Transmission Provider will use due diligence to expand or modify its Transmission System to provide the requested Long-Term Firm Transmission Service, consistent with its planning obligations in Attachment K, provided the Transmission Customer agrees to compensate the Transmission Provider for such costs pursuant to the terms of Section 27. The Transmission Provider will conform to Good Utility Practice and its planning obligations in Attachment K, in determining the need for new facilities and in the design and construction of such facilities. The obligation applies only to those facilities that the Transmission Provider has the right to expand or modify. The Transmission Provider is not obligated under this Tariff to expand or modify its Transmission System to provide Short-Term Firm Point-To-Point Service.
- (b) If the Transmission Provider determines that it cannot accommodate a Completed Application for Long-Term Firm Point-To-Point Transmission Service because of insufficient capability on its Transmission System, the Transmission Provider <u>will</u> <u>use due diligence to provide redispatch from its own resources until (i) Network</u> <u>Upgrades are completed for the Transmission Customer, (ii) the Transmission</u> <u>Provider determines through a biennial reassessment that it can no longer reliably</u> <u>provide the redispatch, or (iii) the Transmission Customer terminates the service</u>

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<u>because of redispatch changes resulting from the reassessment. The</u> <u>Transmission Provider</u> shall not unreasonably deny self-provided redispatch or redispatch arranged by the Transmission Customer from a third party resource.

(c) Reserved.

15.5 Deferral of Service

The Transmission Provider may defer providing service until it completes construction of new transmission facilities or upgrades needed to provide Long-Term Firm Point-To-Point Transmission Service whenever the Transmission Provider determines that providing the requested service would, without such new facilities or upgrades, impair or degrade reliability to any existing firm services.

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15.6 Other Transmission Service Schedules

Eligible Customers receiving transmission service under other agreements on file with the Commission may continue to receive transmission service under those agreements until such time as those agreements may be modified by the Commission.

15.7 Real Power Losses

Real Power Losses are associated with all transmission service. The Transmission Provider is not obligedobligated to provide Real Power Losses. The Transmission Customer is responsible for replacing losses associated with all transmission service as calculated by the Transmission Provider. The applicable Real Power Loss factors are set out in Transmission Provider Rate Schedule 110 and are also set out in Rate Schedule 10. The Transmission Customer may elect to self-supply losses on its transmission services or to purchase Loss Compensation Service from the Transmission Provider pursuant to its Rate Schedule 09. These Loss Compensation Service rate are also set out in Rate Schedule 09. A Transmission Customer who has elected to purchase Loss Compensation Service from the Transmission Service form the to change its election.

A Transmission Customer who has elected to self-supply transmission losses, must submit a valid loss schedule with each energy schedule associated with its transmission service in accordance with the Transmission Provider's scheduling practices. If the Transmission Customer fails to submit a valid loss schedule with its energy schedule associated with its transmission reservation in accordance with the Transmission Provider's scheduling practices and

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- (i) if the Transmission Customer has failed to submit a valid loss schedule with its energy schedule fewer than three times, the Transmission Provider will charge the Transmission Customer for Loss Compensation Service pursuant to its Rate Schedule 09, and inform the Transmission Customer the number of times the Transmission Customer has failed to submit valid loss schedule with its energy schedule; or
- (ii) if the Transmission Customer has been notified by the Transmission Provider that the Transmission Customer has failed to submit a valid loss schedule with its energy schedule three times, the Transmission Provider will (a) charge the Transmission Customer for Loss Compensation Service pursuant to its Rate Schedule 09, (b) the Transmission Customer will not be permitted to self supply losses; and (c) the Transmission Provider will notify the Transmission Customer of the commencement date for Loss Compensation Service.

15.8 Open Season

At the Transmission Provider's option, requests for Long-Term Firm Point-To-Point Service may be aggregated, studied, and accommodated together. If the Transmission Provider elects to study requests for long-term service together, all Completed Applications received within a period not to exceed one hundred and eighty (180) Calendar Days (the Open Season Period) will be studied together provided that the Transmission Provider may study a Completed Application separately to the extent warranted by Good Utility Practice based upon the electrical remoteness of the service required and the resulting impacts on the system. Notwithstanding the provisions of Section 13.2, but subject to the provisions of (c) below, all Eligible Customers who submit Completed Applications within the Open Season Period shall have equal

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reservation priority, behind Completed Applications submitted prior to the Open Season Period and ahead of Completed Applications submitted after the Open Season Period.

The Open Season Period shall have a fixed time interval based on fixed annual opening and closing dates. Any changes to the established Open Season Period shall be announced with a posting on the Transmission Provider's OASIS beginning at least one hundred and eighty (180) Calendar Days in advance of the change and continuing thereafter through the end date of the first Open Season Period that is to be modified.

The provisions of Section 19 apply to Completed Applications received within the Open Season Period except as set out in (a), (b) and (c) below.

(a) The costs of the System Impact Study shall be allocated pro rata based on the capacity requested among the Eligible Customers who have submitted Completed Applications within the Open Season Period and the costs of the Facilities Study shall be allocated, pro rata, based on the capacity requested, among those Eligible Customers who subsequently execute a Facilities Study Agreement tendered by the Transmission Provider in accordance with Section 19.4.

<u>(a)</u>

(b) — Within fifteen (15) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study or, where an Eligible Customer described in Section 15.9 makes an election pursuant to Section 15.9(c), on the first business day after

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the Transmission Provider has notified each Eligible Customer that has executed a Facilities Study Agreement of the election made, each Eligible Customer that has executed a Facilities Study Agreement shall indicate on OASIS whether it is willing to pay its applicable share of the good faith estimate of costs allocated in accordance with Attachment O, contained in the Facilities Study. Within thirty (30) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study, the Transmission Provider shall tender a Service Agreement to each Eligible Customer that has indicated that it is willing to pay its applicable share of those costs. Each Service Agreement shall be contingent on execution by each other Eligible Customer receiving a Service Agreement. Each Eligible Customer shall have fifteen (15) Calendar Days to execute its Service Agreement and provide the required letter of credit or other form of security. If any one or more Service Agreements are not executed or security not provided by the expiry of that fifteen-day period, the Transmission Provider shall, within fifteen (15) Calendar Days thereafter, reissue Service Agreements to those Eligible Customers that executed the previous Service Agreement apportioning the costs contained in the Facilities Study among those remaining Eligible Customers. Each of those remaining Eligible Customers shall have fifteen (15) Calendar Days to execute its Service Agreement and provide the required letter of credit or other form of security. If any one or more of those Service Agreements are not executed or security not provided, then the Transmission Provider shall continue to reissue Service Agreements as provided for above until all issued Service Agreements are executed and security provided, or until the last Service Agreement tendered was tendered to a single Eligible Customer.

<u>(b)</u>

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(c)—Subject to 15.9(a) and Attachment M-2, any available transmission capability that can be provided to accommodate a request for service, in whole or in part, without modification or expansion of the Transmission Provider's Transmission System,

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- (c) shall be allocated to Eligible Customers on a first-come, first-serve basis, i.e., in the chronological sequence in which each has reserved service.
- 15.9 An Eligible Customer that has submitted a Completed Application before the Open Season Period described in Section 15.8 may elect, prior to execution of a Service Agreement or the filing of an unexecuted Service Agreement with respect to the requested Transmission Service, to participate in the Open Season process described in Section 15.8. If such an Eligible Customer elects to participate in the Open Season process, the provisions of Section 15.8 apply to that Eligible Customer as though it had submitted a Completed Application within the Open Season period, except as set out in (a), (b), (c) and (d) below:
 - (a) Subject to Attachment M-2, the Eligible Customer shall have priority to any available transmission capability to accommodate its request without modification or expansion of the Transmission Provider's Transmission System on a first-come, first-serve basis, i.e., in the chronological sequence in which it requested service before the open season period.
 - (b) The Facilities Study shall include a good faith estimate of costs allocated to the Eligible Customer in accordance with Attachment O on the basis that (i) the Eligible Customer's request was studied separately in accordance with its reservation priority and (ii) the Eligible Customer's request was studied as part of the Open Season process.
 - (c) Within fifteen (15) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study, the Eligible Customer shall indicate on OASIS whether it is willing to pay its applicable share of the good faith estimate of costs determined on the basis described in either (b)(i) or (b)(ii) above.

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(d) If the Eligible Customer indicates that it is willing to pay its applicable share of costs, as described in (c) above, the Transmission Provider shall, within thirty (30) Calendar Days of the date on which the Transmission Provider delivers the Facilities Study, tender a Service Agreement to the Eligible Customer in accordance with the Eligible Customer's election in (c) above.

16. Transmission Customer Responsibilities

16.1 Conditions Required of Transmission Customers

Point-To-Point Transmission Service shall be provided by the Transmission Provider only if the following conditions are satisfied by the Transmission Customer:

- (a) The Transmission Customer has submitted a Completed Application for service;
- (b) The Transmission Customer meets the creditworthiness criteria set forth in Appendix L;
- (c) The Transmission Customer will have arrangements in place for any other transmission service necessary to effect the delivery from the generating source to the Transmission Provider prior to the time service under Part II of the Tariff commences;
- (d) The Transmission Customer agrees to pay for any facilities constructed and chargeable to such Transmission Customer under Part II of the Tariff and provide security for any Network Upgrades in accordance with Attachment O, whether or not the Transmission Customer takes service for the full term of its reservation;

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- (e) The Transmission Customer provides the information required by the Transmission Provider's planning process established in Attachment K; and,
- (f) The Transmission Customer has executed a Point-To-Point Service Agreement or Umbrella Agreement or has agreed to receive service pursuant to Section 15.3.

16.2 Transmission Customer Responsibility for Third-Party Arrangements

Any scheduling arrangements that may be required by other electric systems shall be the responsibility of the Transmission Customer requesting service. The Transmission Customer shall provide, unless waived by the Transmission Provider, notification to the Transmission Provider identifying such systems and authorizing them to schedule the capacity and energy to be transmitted by the Transmission Provider pursuant to Part II of the Tariff on behalf of the Receiving Party at the Point of Delivery or the Delivering Party at the Point of Receipt. However, the Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making such arrangements, including without limitation, providing any information or data required by such other electric system pursuant to Good Utility Practice.

17. Procedures for Arranging Firm Point-To-Point Transmission Service

17.1 Application

A request for Firm Point-To-Point Transmission Service for periods of one year or longer must contain an Application to British Columbia Transmission CorporationBC Hydro at least sixty (60) Calendar Days in advance of the calendar month in which service is to commence. The Transmission Provider will consider requests for such firm service on shorter notice when feasible. Requests for firm service for periods of less than one year

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shall be made pursuant to an executed Umbrella Agreement. Request for Short-Term Firm Point-To-Point transmission service of less than one year shall be submitted no earlier than the number of Calendar Days specified by the Transmission Provider in its Business Practices before service is to commence. All Firm Point-To-Point Transmission Service requests must be submitted by entering the information listed below on the Transmission Provider's OASIS. If the Transmission Provider's OASIS is not functioning, a Completed Application may be submitted by: (i) transmitting the required information to the Transmission Provider by telefax; or (ii) providing the information by telephone over

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the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the priority of the Application.

17.2 Completed Application

A Completed Application shall provide all of the information listed below together with such other information as may be required by the Commission:

- (a) The identity, address, telephone number, email address and facsimile number of the entity requesting service;
- (b) A statement that the entity requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (c) The location of the Point(s) of Receipt and Point(s) of Delivery and the identities of the Delivering Parties and the Receiving Parties;
- (d) The location of the generating facility(ies) supplying the capacity and energy and the location of the load ultimately served by the capacity and energy transmitted. The Transmission Provider will treat this information as confidential except to the extent that disclosure of this information is required by this Tariff, by regulatory or judicial order, for reliability purposes pursuant to Good Utility Practice or pursuant to RTG transmission information sharing agreements. The Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission;
- (e) A description of the supply characteristics of the capacity and energy to be delivered;

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 (f) An estimate of the capacity and energy expected to be delivered to the Receiving Party;

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- (g) The Service Commencement Date and the term of the requested Transmission Service;
- (h) The transmission capacity requested for each Point of Receipt and each Point of Delivery on the Transmission Provider's Transmission System; customers may combine their requests for service in order to satisfy the minimum transmission capacity requirement;
- A statement indicating that, if the Eligible Customer submits a Pre-Confirmed Application, the Eligible Customer will execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service; and,
- (j) Any additional information required by the Transmission Provider's planning process established in Attachment K.

The Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission.

17.3 Deposit

A Completed Application for Firm Point-To-Point Transmission Service also shall include a deposit of either one month's charge for Reserved Capacity or the full charge for Reserved Capacity for service requests of less than one month. If the Application is rejected by the Transmission Provider because it does not meet the conditions for service as set forth herein, or in the case of requests for service arising in connection with losing bidders in a Request For Proposals (RFP), said deposit less any reasonable costs incurred by the Transmission Provider in connection with the review of the losing

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bidder's Application shall be refunded with interest on the refundable amount. The deposit less any reasonable costs incurred by the Transmission Provider will also be refunded with interest on the refundable amount if the Transmission Provider is unable to complete new facilities needed to provide the service. If an Application is withdrawn or the Eligible Customer decides not to enter into a Service Agreement for Firm Point-To-Point Transmission Service, the deposit less reasonable costs incurred by the Transmission Provider to the extent such costs have not already been recovered by the Transmission Provider from the Eligible Customer shall be refunded with interest on the refundable amount. The Transmission Provider will provide to the Eligible Customer a complete accounting of all costs deducted from the refunded deposit, which the Eligible Customer may contest if there is a dispute concerning the deducted costs. If a Service Agreement for Firm Point-To-Point Transmission Service is executed, the deposit, with interest, will be returned to the Transmission Customer upon expiration or termination of the Service Agreement for Firm Point-To-Point Transmission Service. Applicable interest shall be computed at the average prime rate of Transmission Provider's lead bank for the applicable period, and shall be calculated from the day the deposit check is credited to the Transmission Provider's account based on the refundable amount. Deposits associated with construction of new facilities are subject to the provisions of Section 19.

17.4 Notice of Deficient Application

Subject to Attachment M-2, if an Application fails to meet the requirements of the Tariff, the Transmission Provider shall notify the entity requesting service within fifteen (15) Calendar Days of receipt of the reasons for such failure. The Transmission Provider will attempt to remedy minor deficiencies in the Application through informal communications with the Eligible Customer. If such efforts are unsuccessful fifteen (15) Calendar Days after notifying the entity requesting service of the deficiencies, the Transmission Provider

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shall return the Application, along with any deposit, with interest. Upon receipt of a new or revised Application that fully complies with the requirements of Part II of the Tariff, the Eligible Customer shall be assigned a new priority consistent with the date of the new or revised Application.

17.5 Response to a Completed Application

Following receipt of a Completed Application for Firm Point-To-Point Transmission Service, the Transmission Provider shall make a determination of available transfer capability as required in Section 15.2. Subject to Attachment M-2, the Transmission Provider shall notify the Eligible Customer as soon as practicable, but not later than thirty (30) Calendar Days after the date of receipt of a Completed Application either: (i) if it will be able to provide service without performing a System Impact Study; or (ii) if such a study is needed to evaluate the impact of the Application pursuant to Section 19.1. Subject to Attachment M-2, responses by the Transmission Provider must be made as soon as practicable to all completed applications (including applications by its own merchant function) and the timing of such responses must be made on a nondiscriminatory basis.

17.6 Execution of Service Agreement

Subject to Attachment M-2, whenever the Transmission Provider determines that a System Impact Study is not required and that the service can be provided, it shall notify the Eligible Customer as soon as practicable but no later than thirty (30) Calendar Days after receipt of the Completed Application. Failure of an Eligible Customer to execute and return the Service Agreement or request the filing of an unexecuted service agreement pursuant to Section 15.3, within fifteen (15) Calendar Days after it is tendered by the Transmission Provider will be deemed a withdrawal and termination of the

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Application and any deposit submitted shall be refunded with interest. Nothing herein limits the right of an Eligible Customer to file another Application after such withdrawal and termination. Where a System Impact Study is required, the provisions of Section 19 will govern the execution of a Service Agreement.

17.7 Extensions for Commencement of Service

The Transmission Customer can obtain, subject to availability, up to five (5) one-year extensions for the commencement of service. The Transmission Customer may postpone service by paying a non-refundable annual reservation fee equal to one-month's charge for Firm Transmission Service for each year or fraction thereof within 15 days of notifying the Transmission Provider it intends to extend the commencement of service. If during any extension for the commencement of service, and Eligible Customer submits a Completed Application for Firm Transmission Service, and such request can be satisfied only by releasing all or part of the Transmission Customer's Reserved Capacity, the original Reserved Capacity will be released unless the following condition is satisfied. Within thirty (30) Calendar Days, the original Transmission Customer agrees to pay the Firm Point-To-Point transmission rate for its Reserved Capacity concurrent with the new Service Commencement Date. In the event the Transmission Customer elects to release the Reserved Capacity, the reservation fees or portions thereof previously paid will be forfeited.

18. Procedures for Arranging Non-Firm Point-To-Point Transmission Service

18.1 Application

Eligible Customers seeking Non-Firm Point-To-Point Transmission Service must submit a Completed Application to the Transmission Provider. Applications must be submitted

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by entering the information listed below on the Transmission Provider's OASIS. If the Transmission Provider's OASIS is not functioning, a Completed Application may be submitted by: (i) transmitting the required information to the Transmission Provider by telefax; or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the service priority of the Application.

18.2 Completed Application

A Completed Application shall provide all of the information listed below, together with such other information as may be required by the Commission:

- (a) The identity, address, telephone number and facsimile number of the entity requesting service;
- (b) A statement that the entity requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (c) The Point(s) of Receipt and the Point(s) of Delivery;
- (d) The maximum amount of capacity requested at each Point of Receipt and Point of Delivery; and
- (e) The proposed dates and hours for initiating and terminating transmission service hereunder.

In addition to the information specified above, when required to properly evaluate system conditions, the Transmission Provider also may ask the Transmission Customer to provide the following:

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- (f) The electrical location of the initial source of the power to be transmitted pursuant to the Transmission Customer's request for service; and
- (g) The electrical location of the ultimate load.

The Transmission Provider will treat this information in (f) and (g) as confidential at the request of the Transmission Customer except to the extent that disclosure of this information is required by this Tariff, by regulatory or judicial order, for reliability purposes pursuant to Good Utility Practice, or pursuant to RTG transmission information sharing agreements. The Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission.

(h) A statement indicating that, if the Eligible Customer submits a Pre-Confirmed Application, the Eligible Customer will execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service.

18.3 Reservation of Non-Firm Point-To-Point Transmission Service

Requests for monthly service shall be submitted no earlier than sixty (60) Calendar Days before service is to commence; requests for weekly service shall be submitted no earlier than fourteen (14) Calendar Days before service is to commence, requests for daily service shall be submitted no earlier than two (2) Working Days before service is to commence, and requests for hourly service shall be submitted no earlier than noon the Working Day before service is to commence. Requests for service received later than 2:00 p.m. on the Working Day before service is scheduled to commence will be accommodated if practicable, or such reasonable times that are generally accepted in the region and are consistently adhered to by the Transmission Provider.

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18.4 Determination of Available Transfer Capability

Following receipt of a tendered schedule the Transmission Provider will make a determination on a non-discriminatory basis of available transfer capability pursuant to Section 15.2. Such determination shall be made as soon as reasonably practicable after receipt, but not later than the following time periods for the following terms of service: (i) thirty (30) minutes for hourly service; (ii) thirty (30) minutes for daily service; (iii) four (4) hours for weekly service; and (iv) two (2) Calendar Days for monthly service, or such reasonable times that are generally accepted in the region and are consistently adhered to by the Transmission Provider.

19. Additional Study Procedures For Long-Term Firm Point-To-Point Transmission Service Requests

19.1 Notice of Need for System Impact Study

After receiving a request for service, the Transmission Provider shall determine on a non-discriminatory basis whether a System Impact Study is needed. A description of the Transmission Provider's methodology for completing a System Impact Study is provided in Attachment D. Subject to Attachment M-2, if the Transmission Provider determines that a System Impact Study is necessary to accommodate the requested service, it shall so inform the Eligible Customer, as soon as practicable. Subject to Attachment M-2 the Transmission Provider shall within thirty (30) Calendar Days of receipt of a Completed Application, tender a System Impact Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required System Impact Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the System Impact Study Agreement and return it to the Transmission Provider with a refundable deposit of \$50,000 in accordance with

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Attachment L, within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the System Impact Study Agreement or not to provide the required deposit in accordance with Attachment L, its application shall be deemed withdrawn and its deposit, pursuant to Section 17.3, shall be returned.

19.2 System Impact Study Agreement and Cost Reimbursement

- (a) The System Impact Study Agreement will clearly specify the Transmission Provider's estimate of the actual cost, and time for completion of the System Impact Study. The charge shall not exceed the actual cost of the study. In performing the System Impact Study, the Transmission Provider shall rely, to the extent reasonably practicable, on existing transmission planning studies. The Eligible Customer will not be assessed a charge for such existing studies; however, the Eligible Customer will be responsible for charges associated with any modifications to existing planning studies that are reasonably necessary to evaluate the impact of the Eligible Customer's request for service on the Transmission System.
- (b) If in response to multiple Eligible Customers requesting service in relation to the same competitive solicitation, a single System Impact Study is sufficient for the

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Transmission Provider to accommodate the requests for service, the costs of that study shall be pro-rated among the Eligible Customers.

(c) <u>ReservedFor System Impact Studies that the Transmission Provider conducts on</u> <u>its own behalf, the Transmission Provider shall record the cost of the System</u> <u>Impact Studies pursuant to Section 8</u>.

19.3 System Impact Study Procedures

Upon receipt of an executed System Impact Study Agreement, the Transmission Provider will use due diligence to complete the required System Impact Study within a sixty (60) Calendar Day period. The System Impact Study shall identify (1) any system constraints and, (2) redispatch options, (when requested by an Eligible Customer) including an estimate of the cost of redispatch, and (3) additional Direct Assignment Facilities or Network Upgrades required to provide the requested service. For customers requesting the study of redispatch options, the System Impact Study shall (1) identify all resources located within the Transmission Provider's Control Area that can significantly contribute toward relieving the system constraint and (2) provide a measurement of each resource's impact on the system constraint. If the Transmission Provider possesses information indicating that any resource outside its Control Area could relieve the constraint, it shall identify each such resource in the System Impact Study. In the event that the Transmission Provider is unable to complete the required System Impact Study within such time period, it shall so notify the Eligible Customer and provide an estimated completion date along with an explanation of the reasons why additional time is required to complete the required studies. A copy of the completed System Impact Study and related work papers shall be made available to the Eligible Customer. The Transmission Provider shall notify the Eligible Customer immediately

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upon completion of the System Impact Study if the Transmission System will be adequate to accommodate all or part of a request for service or that no costs are likely to be incurred for new transmission facilities or upgrades. In order for a request to remain a Completed Application, within fifteen (15) Calendar Days of completion of the System Impact Study the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement pursuant to Section 15.3, or the Application shall be deemed terminated and withdrawn.

19.4 Facilities Study Procedures

If a System Impact Study indicates that additions or upgrades to the Transmission System are needed to supply the Eligible Customer's service request, the Transmission Provider, within thirty (30) Calendar Days of the completion of the System Impact Study, shall tender to the Eligible Customer a Facilities Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required Facilities Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the Facilities Study Agreement and return it with a refundable deposit of \$100,000 in accordance with Attachment L to the Transmission

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Provider within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the Facilities Study Agreement or not to provide a deposit in accordance with Attachment L, its application shall be deemed withdrawn and its deposit, pursuant to Section 17.3, shall be returned. Upon receipt of an executed Facilities Study Agreement, the Transmission Provider will use due diligence to complete the required Facilities Study within a sixty (60) Calendar Day period. If the Transmission Provider is unable to complete the Facilities Study in the allotted time period, the Transmission Provider shall notify the Transmission Customer and provide an estimate of the time needed to reach a final determination along with an explanation of the reasons that additional time is required to complete the study. When completed, the Facilities Study will include a good faith estimate of: (i) the cost of Direct Assignment Facilities to be charged to the Transmission Customer; (ii) the Transmission Customer's appropriate share of the cost of any required Network Upgrades as determined pursuant to the provisions of Part II of the Tariff; and (iii) the time required to complete such construction and initiate the requested service. As soon as the Facilities Study is complete, the Transmission Provider shall make a copy of the completed Facilities Study available and tender a Service Agreement to the Transmission Customer. The Transmission Customer shall provide the Transmission Provider with a letter of credit or other reasonable form of security acceptable to the Transmission Provider equivalent to the costs of new facilities or upgrades in accordance with Attachment O and consistent with commercial practices as established under the laws of Canada and the Province of British Columbia. After being tendered with a Service Agreement, the Transmission Customer shall have thirty (30) Calendar Days to execute a Service Agreement or request the filing of an unexecuted Service Agreement and provide the required letter of credit or other form of security or the request will no longer be a Completed Application and shall be deemed terminated and withdrawn.

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19.5 Facilities Study Modifications

Any change in design arising from inability to site or construct facilities as proposed will require development of a revised good faith estimate. New good faith estimates also will be required in the event of new statutory or regulatory requirements that are effective before the completion of construction or other circumstances beyond the control of the Transmission Provider that significantly affect the final cost of new facilities or upgrades to be charged to the Transmission Customer pursuant to the provisions of Part II of the Tariff.

19.6 Due Diligence in Completing New Facilities

The Transmission Provider shall use due diligence to add necessary facilities or upgrade its Transmission System within a reasonable time. The Transmission Provider will not upgrade its existing or planned Transmission System in order to provide the requested Firm Point-To-Point Transmission Service if doing so would impair system reliability or otherwise impair or degrade existing firm service.

19.7 Partial Interim Service

If the Transmission Provider determines that it will not have adequate transfer capability to satisfy the full amount of a Completed Application for Firm Point-To-Point Transmission Service, the Transmission Provider nonetheless shall be obligated to offer and provide the portion of the requested Firm Point-To-Point Transmission Service that can be accommodated without addition of any facilities and through redispatch. However, the Transmission Provider shall not be obligated to provide the incremental amount of requested Firm Point-To-Point Transmission Service that addition

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of facilities or upgrades to the Transmission System until such facilities or upgrades have been placed in service.

Where this section applies to a Completed Application for Long-Term Firm Point-to-Point Service, the Transmission Provider shall offer the following partial interim service options:

- (a) the maximum amount of Long-Term Firm Point-to-Point Service that is available in the same quantity for each month of the term requested, or for a shorter term;
- (b) the maximum amount of Long-Term Firm Point-to-Point Service that is available in varying monthly quantities.

An offer of partial interim service described in (b) above may only be made in annual increments of service, the minimum term of which must contain at least twelve months of Reserved Capacity in an amount greater than zero megawatts. Notwithstanding any other provision of this Tariff, the Reserved Capacity for which a Transmission Customer that has accepted an offer of partial interim service described in (b) above must pay in each month is the maximum amount reserved for that month. Section 2.2 applies to Transmission Customers with partial interim service as described in (b) above provided that in order for the Transmission Customer to exercise its rights under Section 2.2 to continue to take transmission service at the end of its contract term where the Transmission System cannot accommodate all of the requests for transmission service, the Transmission Customer must not only agree to accept a term at least equal to a competing request by any new Eligible Customer, but must also agree to accept a quantity of Long-Term Firm Point-To-Point Service for each month of that term at least equal to the lesser of: (i) the maximum amount of Long-Term Firm Point-To-Point Service that is available in the same quantity for each month of the term; and (ii) the

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quantity of Long-Term Firm Point-To-Point Service requested by that new Eligible Customer in its competing request.

19.8 Expedited Procedures for New Facilities

In lieu of the procedures set forth above, the Eligible Customer shall have the option to expedite the process by requesting the Transmission Provider to tender at one time, together with the results of required studies, an "Expedited Service Agreement" pursuant to which the Eligible Customer would agree to compensate the Transmission Provider for all costs incurred pursuant to the terms of the Tariff. In order to exercise this option, the Eligible Customer shall request in writing an expedited Service Agreement covering all of the above-specified items within thirty (30) Calendar Days of receiving the results of the System Impact Study identifying needed facility additions or upgrades or costs incurred in providing the requested service. While the Transmission Provider agrees to provide the Eligible Customer with its best estimate of the new facility costs and other charges that may be incurred, such estimate shall not be binding and the Eligible Customer must agree in writing to compensate the Transmission Provider for all costs incurred pursuant to the provisions of the Tariff. The Eligible Customer shall execute and return such an Expedited Service Agreement within fifteen (15) Calendar Days of its receipt or the Eligible Customer's request for service will cease to be a Completed Application and will be deemed terminated and withdrawn.

19.9 Penalties for Failure to Meet Study Deadlines

Sections 19.3 and 19.4 require a Transmission Provider to use due diligence to meet 60 day study completion deadlines for System Impact Studies and Facilities Studies.

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- (a) The Transmission Provider is required to file a notice with the Commission in the event that more than twenty (20) percent of non-Affiliates' System Impact Studies and Facilities Studies completed by the Transmission Provider in any two consecutive calendar quarters are not completed within the study completion deadlines. Such notice must be filed within thirty (30) days of the end of the calendar quarter triggering the notice requirement.
- (b) For the purposes of calculating the percent of non-Affiliates' System Impact Studies and Facilities Studies processed outside of the study completion deadlines, the Transmission Provider shall consider all System Impact Studies and Facilities Studies that it completes for non-Affiliates during the calendar quarter. The percentage should be calculated by dividing the number of those studies which are completed on time by the total number of completed studies. The Transmission Provider may provide an explanation in its notification filing to the Commission if it believes there are extenuating circumstances that prevented it from meeting the study completion deadlines.
- (c) The Transmission Provider is subject to an operational penalty if it completes ten (10) percent or more of non-Affiliates' System Impact Studies and Facilities Studies outside of the study completion deadlines for each of the two calendar quarters immediately following the quarter that triggered its notification filing to the Commission. The operational penalty will be assessed for each calendar quarter for which an operational penalty applies, starting with the calendar quarter immediately following the quarter that triggered the Transmission Provider's notification filing to the Commission. The operational penalty will continue to be assessed each quarter until the Transmission Provider completes at least ninety (90) percent of all non-Affiliates' System Impact Studies and Facilities Studies within the deadline.

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(d) For penalties assessed in accordance with subsection (c) above, the penalty amount for each System Impact Study or Facilities Study shall be equal to \$500 for each day the Transmission Provider takes to complete that study beyond the deadline.

20. Procedures if the Transmission Provider is Unable to Complete New Transmission Facilities for Long-Term Firm Point-To-Point Transmission Service

20.1 Delays in Construction of New Facilities

If any event occurs that will materially affect the time for completion of new facilities, or the ability to complete them, the Transmission Provider shall promptly notify the Transmission Customer. In such circumstances, the Transmission Provider shall within thirty (30) Calendar Days of notifying the Transmission Customer of such delays, convene a technical meeting with the Transmission Customer to evaluate the alternatives available to the Transmission Customer. The Transmission Provider also shall make available to the Transmission Customer studies and work papers related to the delay, including all information that is in the possession of the Transmission Provider that is reasonably needed by the Transmission Customer to evaluate any alternatives.

20.2 Alternatives to the Original Facility Additions

When the review process of Section 20.1 determines that one or more alternatives exist to the originally planned construction project, the Transmission Provider shall present such alternatives for consideration by the Transmission Customer. If, upon review of any alternatives, the Transmission Customer desires to maintain its Completed Application subject to construction of the alternative facilities, it may request the Transmission Provider to submit a revised Service Agreement for Long-Term Firm Point-To-Point Transmission Service. If the alternative approach solely involves Short-Term Firm or

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Non-Firm Point-To-Point Transmission Service, the Transmission Provider shall promptly tender an Umbrella Agreement for Short-Term Firm or Non-Firm Point-To-Point Transmission Service providing for the service. In the event the Transmission Provider concludes that no reasonable alternative exists and the Transmission Customer disagrees, the Transmission Customer may seek relief under the dispute resolution procedures pursuant to Section 12 or it may refer the dispute to the Commission for resolution.

20.3 Refund Obligation for Unfinished Facility Additions

If the Transmission Provider and the Transmission Customer mutually agree that no other reasonable alternatives exist and the requested service cannot be provided out of existing capability under the conditions of Part II of the Tariff, the obligation to provide the requested Firm Point-To-Point Transmission Service shall terminate and any refundable deposit made by the Transmission Customer shall be returned with interest calculated at a rate equal to the average prime rate of the Transmission Provider's lead bank for the applicable period. However, the Transmission Customer shall be responsible for all

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prudently incurred costs by the Transmission Provider through the time construction was suspended.

21. Provisions Relating to Transmission Construction and Services on the Systems of Other Utilities

21.1 Responsibility for Third-Party System Additions

The Transmission Provider shall not be responsible for making arrangements for any necessary engineering, permitting, and construction of transmission <u>or distribution</u> <u>facilities</u> on the system(s) of any other entity or for obtaining any regulatory approval for such facilities. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in obtaining such arrangements, including without limitation, providing any information or data required by such other electric system pursuant to Good Utility Practice.

21.2 Coordination of Third-Party System Additions

In circumstances where the need for transmission facilities or upgrades is identified pursuant to the provisions of Part II of the Tariff, and if such upgrades further require the addition of transmission facilities on other systems, the Transmission Provider shall have the right to coordinate construction on its own system with the construction required by others. The Transmission Provider, after consultation with the Transmission Customer and representatives of such other systems, may defer construction of its new transmission facilities, if the new transmission facilities on another system cannot be completed in a timely manner. The Transmission Provider shall notify the Transmission Customer in writing of the basis for any decision to defer construction and the specific problems which must be resolved before it will initiate or resume construction of new

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facilities. Within sixty (60) Calendar Days of receiving written notification by the Transmission Provider of its intent to defer construction pursuant to this section, the Transmission Customer may challenge the decision in accordance with the dispute resolution

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procedures pursuant to Section 12 or it may refer the dispute to the Commission for resolution.

22. Changes in Service Specifications

22.1 Modifications On a Non-Firm Basis

The Transmission Customer taking Firm Point-To-Point Transmission Service may request the Transmission Provider to provide transmission service on a non-firm basis over Point(s) of Receipt and Point(s) of Delivery other than those specified in the Service Agreement or agreed on pursuant to an Umbrella Agreement (Secondary Receipt and Delivery Points), in amounts not to exceed its firm capacity reservation, without incurring an additional Non-Firm Point-To-Point Transmission Service charge or executing a new Service Agreement or Umbrella Agreement, subject to the following conditions.

- (a) Service provided over secondary Points of Receipt and Points of Delivery will be non-firm only, on an as-available basis and will not displace any firm or non-firm service reserved or scheduled by third-parties under the Tariff.
- (b) The sum of all Firm and Non-Firm Point-To-Point Transmission Service provided to the Transmission Customer at any time pursuant to this section shall not exceed the Reserved Capacity in the relevant Service Agreement or agreed on pursuant to an Umbrella Agreement under which such services are provided.
- (c) The Transmission Customer shall retain its right to schedule Firm Point-To-Point Transmission Service at the Point(s) of Receipt and Point(s) of Delivery specified in the relevant Service Agreement or agreed on pursuant to an Umbrella Agreement in the amount of its original capacity reservation.

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(d) Service over secondary Points of Receipt and Points of Delivery on a non-firm basis shall not require the filing of an Application for Non-Firm Point-To-Point Transmission Service under the Tariff. However, all other requirements of Part II of the Tariff (except as to transmission rates) shall apply to transmission service on a non-firm basis over secondary Points of Receipt and Points of Delivery.

22.2 Modification On a Firm Basis

Any request by a Transmission Customer to modify Point(s) of Receipt and Point(s) of Delivery on a firm basis shall be treated as a new request for service in accordance with Section 17 hereof, except that such Transmission Customer shall not be obligated to pay any additional deposit if the capacity reservation does not exceed the amount reserved in the existing Service Agreement or agreed on pursuant to an Umbrella Agreement. While such new request is pending, the Transmission Customer shall retain its priority for service at the existing firm Point(s) of Receipt and Point(s) of Delivery specified in its Service Agreement or agreed on pursuant to an Umbrella Agreement.

23. Sale or Assignment of Transmission Service

23.1 Procedures for Assignment or Transfer of Service

Subject to Commission approval of any necessary filings, a Transmission Customer may sell, assign, or transfer all or a portion of its rights under its Service Agreement or Umbrella Agreement, but only to another Eligible Customer (the Assignee). The Transmission Customer that sells, assigns or transfers its rights under its Service Agreement or Umbrella Agreement is hereafter referred to as the Reseller. Compensation to the Reseller shall not exceed the higher of: (i) the original rate paid by the Reseller; (ii) the Transmission Provider's maximum rate on file at the time of the

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assignment; or (iii) the Reseller's opportunity cost capped at the Transmission Provider's cost of expansion. If the Assignee does not request any change in the Point(s) of Receipt or the Point(s) of Delivery, or a change in any other term or condition set forth in the original Service Agreement or Umbrella Agreement, the Assignee will receive the same services as did the Reseller and the priority of service for the Assignee will be the same as that of the

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Reseller. A Reseller should notify the Transmission Provider as soon as possible after any assignment or transfer of service occurs but in any event, notification must be provided prior to any provision of service to the Assignee. The Assignee will be subject to all terms and conditions of this Tariff. If the Assignee requests a change in service, the reservation priority of service will be determined by the Transmission Provider pursuant to Section 13.2.

23.2 Limitations on Assignment or Transfer of Service

If the Assignee requests a change in the Point(s) of Receipt or Point(s) of Delivery on a firm basis, the request shall be treated as a new request for service in accordance with Section 22.2. If the Assignee requests a change in any other specifications set forth in the original Service Agreement or Umbrella Agreement, the Transmission Provider will consent to such change subject to the provisions of the Tariff, provided that the change will not impair the operation and reliability of the Transmission Provider's Transmission System.generation, transmission or distribution systems. The Assignee shall compensate the Transmission Provider for performing any System Impact Study needed to evaluate the capability of the Transmission System to accommodate the proposed change and any additional costs resulting from such change. The Reseller shall remain liable for the performance of all obligations under the Service Agreement or Umbrella Agreement, except as specifically agreed to by the Transmission Provider and the Reseller through an amendment to the Service Agreement or Umbrella Agreement.

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23.3 Information on Assignment or Transfer of Service

In accordance with Section 4, all sales or assignments of capacity must be conducted through or otherwise posted on the Transmission Provider's OASIS on or before the date the reassigned service commences and are subject to Section 23.1. Resellers may also use the Transmission Provider's OASIS to post transmission capacity available for resale.

24. Metering and Power Factor Correction at Point(s) of Receipt and Point(s) of Delivery

24.1 Transmission Customer Obligations

Unless otherwise agreed, the Transmission Customer shall be responsible for installing and maintaining compatible metering and communications equipment to accurately account for the capacity and energy being transmitted under Part II of the Tariff and to communicate the information to the Transmission Provider. Such equipment shall remain the property of the Transmission Customer.

24.2 Transmission Provider Access to Metering Data

The Transmission Provider shall have access to metering data, which may reasonably be required to facilitate measurements and billing under the Service Agreement.

24.3 Power Factor

Unless otherwise agreed, the Transmission Customer is required to maintain a power factor within the same range as the Transmission Provider pursuant to Good Utility

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Practices. The power factor requirements are specified in the Service Agreement or Umbrella Agreement where applicable.

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25. Compensation for Transmission Service

Rates for Firm and Non-Firm Point-To-Point Transmission Service are provided in Schedules 01 and 02, respectively. The rates in Schedules 01 and 02 are the rates payable by the Transmission Customer and are the combined rates of the Transmission Provider and the Transmission Owner for Firm and Non-Firm Point To Point Transmission Service, respectively. The Transmission Provider's rates for Firm and Non-Firm Point-To-Point Transmission Service are provided in the Transmission Provider's Rate Schedule 101 and 102, respectively. The Transmission Owner's rates for Firm and Non-Firm Point-To-Point Transmission Service are provided in the Transmission Owner's Rate Schedules 3001 and 3002, respectivelyRate Schedule 01. The Transmission Provider shall use Part II of the Tariff to make its Third-Party Sales. The Transmission Provider shall account for such use at the applicable Tariff rates, pursuant to Section 8.

26. Stranded Cost Recovery

The Transmission Provider may seek to recover stranded costs from the Transmission Customer pursuant to this Tariff in accordance with the terms, conditions and procedures approved by the Commission.

27. Compensation for New Facilities and Redispatch Costs

Whenever a System Impact Study performed by the Transmission Provider in connection with the provision of Firm Point-To-Point Transmission Service identifies the need for new facilities, the Transmission Customer shall be responsible for such costs in accordance with Attachment O. Whenever a System Impact Study performed by the Transmission Provider identifies capacity constraints that may be relieved by generation redispatch, the Transmission Provider shall use commercially reasonable efforts to

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procure generation resources for such redispatch and the Transmission Customer shall be responsible for the redispatch costs.

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PART III. NETWORK INTEGRATION TRANSMISSION SERVICE

Preamble

The Transmission Provider will provide Network Integration Transmission Service pursuant to the applicable terms and conditions contained in the Tariff and Service Agreement. Network Integration Transmission Service allows the Network Customer to integrate, economically dispatch and regulate its current and planned Network Resources to serve its Network Load. Network Integration Transmission Service also may be used by the Network Customer to deliver economy energy purchases to its Network Load from non-designated resources on an as-available basis without additional charge. Transmission service for sales to non-designated loads will be provided pursuant to the applicable terms and conditions of Part II of the Tariff.

28. Nature of Network Integration Transmission Service

28.1 Scope of Service

Network Integration Transmission Service is a transmission service that allows Network Customers to efficiently and economically utilize their Network Resources (as well as other non-designated generation resources) to serve their Network Load located in the Transmission Provider's Control Area and any additional load that may be designated pursuant to Section 31.3 of the Tariff. The Network Customer taking Network Integration Transmission Service must obtain or provide Ancillary Services pursuant to Section 3.

28.2 Transmission Provider Responsibilities

The Transmission Provider will plan, construct, operate and maintain its Transmission System in accordance with Good Utility Practice and its planning obligations in

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Attachment K in order to provide the Network Customer with Network Integration Transmission Service over the Transmission Provider's Transmission System. The Transmission Provider shall include the Network Customer's Network Load in its Transmission System planning and shall, consistent with Good Utility Practice and Attachment K, and in accordance with Attachment P, endeavour to construct and place into service sufficient transfer capability to deliver the Network Customer's Network Resources to serve its Network Load.

28.3 Network Integration Transmission Service

The Transmission Provider will provide firm transmission service over its Transmission System to the Network Customer for the delivery of capacity and energy from its designated Network Resources to service its Network Loads.

28.4 Secondary Service

The Network Customer may use the Transmission Provider's Transmission System to deliver energy to its Network Loads from resources that have not been designated as Network Resources. Such energy shall be transmitted, on an as-available basis, at no additional charge. Secondary service shall not require the filing of an Application for Network Integration Transmission Service under the Tariff. However, all other requirements of Part III of the Tariff (except for transmission rates) shall apply to secondary service. Deliveries from resources other than Network Resources will have a higher priority than any Non-Firm Point-To-Point Transmission Service under Part II of the Tariff.

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28.5 Real Power Losses

Real Power Losses are associated with all transmission service. The Network Customer is responsible for replacing losses associated with all transmission service as calculated by the Transmission Provider. The applicable Real Power Loss factors are set out in Transmission Provider's Rate Schedule 110 and are also set out in Schedule 10.

28.6 Restrictions on Use of Service

The Network Customer shall not use Network Integration Transmission Service for: (i) sales of capacity and energy to non-designated loads; or (ii) direct or indirect provision of transmission service by the Network Customer to third parties. All Network Customers taking Network Integration Transmission Service shall use Point-To-Point Transmission Service under Part II of the Tariff for any Third-Party Sale which requires use of the Transmission Provider's Transmission System. The Transmission Provider shall specify any appropriate charges and penalties and all related terms and conditions applicable in the event that a Network Customer uses Network Integration Transmission Service or secondary service pursuant to Section 28.4 to facilitate a wholesale sale that does not serve a Network Load. All related terms and conditions are specified in Attachment Q-2 and Tariff Supplement No. 3 of the Transmission Provider.

29. Initiating Service

29.1 Condition Precedent for Receiving Service

Subject to the terms and conditions of Part III of the Tariff, the Transmission Provider will provide Network Integration Transmission Service to any Eligible Customer, provided that: (i) the Eligible Customer completes an Application for service as provided under

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Part III of the Tariff; (ii) the Eligible Customer and the Transmission Provider complete the technical arrangements set forth in Sections 29.3 and 29.4; (iii) the Eligible Customer executes a Service Agreement pursuant to Attachment F for service under Part III of the Tariff or requests in writing that the Transmission Provider file a proposed unexecuted Service Agreement with the Commission; and (iv) the Eligible Customer executes a Network Operating Agreement with the Transmission Provider pursuant to Attachment Attachment G.

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29.2 Application Procedures

An Eligible Customer requesting service under Part III of the Tariff must submit an Application, which shall include a deposit approximating the charge for one month of service in accordance with Attachment L, to the Transmission Provider as far as possible in advance of the month in which service is to commence. Unless subject to the procedures in Section 2, Completed Applications for Network Integration Transmission Service will be assigned a priority according to the date and time the Application is received, with the earliest Application receiving the highest priority. Applications must be submitted by entering the information listed below on the Transmission Provider's OASIS. If the Transmission Provider's OASIS is not functioning, a Completed Application may be submitted by: (i) transmitting the required information to the Transmission Provider by telefax; or (ii) providing the information by telephone over the Transmission Provider's time recorded telephone line. Each of these methods will provide a time-stamped record for establishing the service priority of the Application. A Completed Application shall provide all of the information listed below together with such other information as may be required by the Commission:

- (a) The identity, address, telephone number, email address and facsimile number of the party requesting service;
- (b) A statement that the party requesting service is, or will be upon commencement of service, an Eligible Customer under the Tariff;
- (c) A description of the Network Load at each delivery point. This description should separately identify and provide the Eligible Customer's best estimate of the total loads to be served at each transmission voltage level, and the loads to be served from each Transmission Provider substation at the same transmission voltage

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level. The description should include a ten (10) year forecast of summer and winter load

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and resource requirements beginning with the first year after the service is scheduled to commence;

- (d) The amount and location of any interruptible loads included in the Network Load. This shall include the summer and winter capacity requirements for each interruptible load (had such load not been interruptible), that portion of the load subject to interruption, the conditions under which an interruption can be implemented and any limitations on the amount and frequency of interruptions. An Eligible Customer should identify the amount of interruptible customer load (if any) included in the 10 year load forecast provided in response to (c) above;
- (e) A description of Network Resources (current and 10-year projection). For each onsystem Network Resource, such description shall include:
 - i. Unit size and amount of capacity from that unit to be designated as Network Resource
 - ii. VAR capability (both leading and lagging) of all generators
 - iii. Operating restrictions
 - 1. Any periods of restricted operations throughout the year
 - 2. Maintenance schedules
 - 3. Minimum loading level of unit
 - 4. Normal operating level of unit

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- 5. Any must-run unit designations required for system reliability or contract reasons
- iv. Approximate variable generating cost (\$/MWH) for redispatch computations
- v. Arrangements governing sale and delivery of power to third parties from generating facilities located in the Transmission Provider Control Area, where only a portion of unit output is designated as a Network Resource;

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- (f) Description of Eligible Customer's transmission system:
 - Load flow and stability data, such as real and reactive parts of the load, lines, transformers, reactive devices and load type, including normal and emergency ratings of all transmission equipment in a load flow format compatible with that used by the Transmission Provider
 - ii. Operating restrictions needed for reliability
 - iii. Operating guides employed by system operators
 - iv. Contractual restrictions or committed uses of the Eligible Customer's transmission system, other than the Eligible Customer's Network Loads and Resources
 - v. Location of Network Resources described in subsection (e) above
 - vi. 10 year projection of system expansions or upgrades
 - vii. Transmission System maps that include any proposed expansions or upgrades
 - viii. Thermal ratings of Eligible Customer's Control Area ties with other Control Areas;
- (g) Service Commencement Date and the term of the requested Network Integration Transmission Service. The minimum term for Network Integration Transmission Service is one (1) year;

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- (h) A statement signed by an authorized officer from or agent of the Network Customer attesting that all of the Network Resources listed pursuant to Section 29.2(e) satisfy the following conditions: (1) the Network Customer owns the resource, has committed to purchase generation pursuant to an executed contract, or has committed to purchase generation where execution of a contract is contingent upon the availability of transmission service under Part III of the Tariff; and (2) the Network Resources do not include any resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis; and
- (i) Any additional information required of the Transmission Customer as specified in the Transmission Provider's planning process established in Attachment K.

Subject to Attachment M-2, unless the Parties agree to a different time frame, the Transmission Provider must acknowledge the request within ten (10) Calendar Days of receipt. The acknowledgment must include a date by which a response will be sent to the Eligible Customer. Subject to Attachment M-2, if an Application fails to meet the requirements of this section, the Transmission Provider shall notify the Eligible Customer requesting service within fifteen (15) Calendar Days of receipt and specify the reasons for such failure. Wherever possible, the Transmission Provider will attempt to remedy deficiencies in the Application through informal communications with the Eligible Customer. If such efforts are unsuccessful fifteen (15) Calendar Days after notifying the Eligible Customer of the deficiencies, the Transmission Provider shall return the Application without prejudice to the Eligible Customer filing a new or revised Application that fully complies with the requirements of this section. The Eligible Customer will be assigned a new priority consistent with the date of the new or revised Application. The

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Transmission Provider shall treat this information consistent with its standards of conduct as approved by the Commission.

29.3 Technical Arrangements to be Completed Prior to Commencement of Service

Network Integration Transmission Service shall not commence until the Transmission Provider and the Network Customer, or a third party, have completed installation of all equipment specified under the Network Operating Agreement consistent with Good Utility Practice and any additional requirements reasonably and consistently imposed to ensure the reliable operation of the Transmission System. Subject to Attachment M-2, the Transmission Provider shall exercise reasonable efforts, in coordination with the Network Customer, to complete such arrangements as soon as practicable taking into consideration the Service Commencement Date.

29.4 Network Customer Facilities

The provision of Network Integration Transmission Service shall be conditioned upon the Network Customer's constructing, maintaining and operating the facilities on its side of each delivery point or interconnection necessary to reliably deliver capacity and energy from the Transmission Provider's Transmission System to the Network Customer. The Network Customer shall be solely responsible for constructing or installing all facilities on the Network Customer's side of each such delivery point or interconnection.

30. Network Resources

30.1 Designation of Network Resources

Network Resources shall include all generation owned, purchased or leased by the Network Customer designated to serve Network Load under the Tariff. Network

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Resources may not include resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis. Any owned or purchased resources that were serving the Network Customer's loads under firm agreements entered into on or before the Service Commencement Date shall initially be designated as Network Resources until the Network Customer terminates the designation of such resources.

30.2 Designation of New Network Resources

The Network Customer may designate a new Network Resource by providing the Transmission Provider with as much advance notice as practicable. A designation of a new Network Resource must be made through the Transmission Provider's OASIS by a request for modification of service pursuant to an Application under Section 29. This request must include a statement that the new network resource satisfies the following conditions: (1) the Network Customer owns the resource, has committed to purchase generation pursuant to an executed contract, or has committed to purchase generation where execution of a contract is contingent upon the availability of transmission service under Part III of the Tariff; and (2) The Network Resources do not include any resources, or any portion thereof, that are committed for sale to non-designated third party load or otherwise cannot be called upon to meet the Network Customer's Network Load on a non-interruptible basis. The Network Customer's request will be deemed deficient if it does not include this statement and the Transmission Provider will follow the procedures for a deficient application as described in Section 29.2 of the Tariff.

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30.3 Termination of Network Resources

The Network Customer may terminate the designation of all or part of a generating resource as a Network Resource at any time but should provide notification to the Transmission Provider as soon as reasonably practicable.

30.4 Operation of Network Resources

The Network Customer shall not operate its designated Network Resources located in the Network Customer's or Transmission Provider's Control Area such that the output of those facilities exceeds its designated Network Load, plus Non-Firm Sales delivered pursuant to Part II of the Tariff, plus losses, plus power sales under a reserve sharing program. This limitation shall not apply to changes in the operation of a Transmission Customer's Network Resources at the request of the Transmission Provider to respond to an emergency or other unforeseen condition, which may impair or degrade the reliability of the Transmission System. For all Network Resources not physically connected with the Transmission Provider's Transmission System, the Network Customer may not schedule delivery of energy in excess of the Network Resource's capacity, as specified in the Network Customer's Application pursuant to Section 29, unless the Network Customer supports such delivery within the Transmission Provider's Transmission System by either obtaining Point-to-Point Transmission Service or utilizing secondary service pursuant to Section 28.4. The Transmission Provider shall specify the rate treatment and all related terms and conditions applicable in the event that a Network Customer's schedule at the delivery point for a Network Resource not physically interconnected with the Transmission Provider's Transmission System exceeds the Network Resource's designated capacity, excluding energy delivered using secondary service or Point-to-Point Transmission Service.

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30.5 Network Customer Redispatch Obligation

As a condition to receiving Network Integration Transmission Service, the Network Customer agrees to redispatch its Network Resources as requested by the Transmission Provider pursuant to Section 33.2. To the extent practical, the redispatch of resources pursuant to this section shall be on a least cost, non-discriminatory basis between all Network Customers, and the Transmission Provider.

30.6 Transmission Arrangements for Network Resources Not Physically Interconnected With the Transmission Provider

The Network Customer shall be responsible for any arrangements necessary to deliver capacity and energy from a Network Resource not physically interconnected with the Transmission Provider's Transmission System. The Transmission Provider will undertake reasonable efforts to assist the Network Customer in obtaining such

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arrangements, including without limitation, providing any information or data required by such other entity pursuant to Good Utility Practice.

30.7 Limitation on Designation of Network Resources

The Network Customer must demonstrate that it owns or has committed to purchase generation pursuant to an executed contract in order to designate a generating resource as a Network Resource. Alternatively, the Network Customer may establish that execution of a contract is contingent upon the availability of transmission service under Part III of the Tariff.

30.8 Use of Interface Capacity by the Network Customer

There is no limitation upon a Network Customer's use of the Transmission Provider's Transmission System at any particular interface to integrate the Network Customer's Network Resources (or substitute economy purchases) with its Network Loads . However, a Network Customer's use of the Transmission Provider's total interface capacity with other transmission systems may not exceed the Network Customer's Load.

30.9 Network Customer Owned Transmission Facilities

The Network Customer that owns existing transmission facilities that are integrated with the Transmission Provider's Transmission System may be eligible to receive consideration either through a billing credit or some other mechanism. In order to receive such consideration the Network Customer must demonstrate that its transmission facilities are integrated into the plans or operations of the Transmission Provider to serve its power and transmission customers. For facilities added by the Network Customer subsequent to the date new rate schedules of the Transmission Provider implementing the proposed revisions herein are made effective by the Commission, the Network

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Customer shall receive credit for such transmission facilities added if such facilities are integrated into the operations of the Transmission Provider's facilities; provided however, the Network Customer's transmission facilities shall be presumed to be integrated if such transmission facilities, if owned by the Transmission Provider, would be eligible for inclusion in the Transmission Provider's annual transmission revenue requirement as specified in Attachment H. Calculation of any credit under this subsection shall be addressed in either the Network Customer's Service Agreement or any other agreement between the Parties.

31. Designation of Network Load

31.1 Network Load

The Network Customer must designate the individual Network Loads on whose behalf the Transmission Provider will provide Network Integration Transmission Service. The Network Loads shall be specified in the Service Agreement.

31.2 New Network Loads Connected With the Transmission Provider

The Network Customer shall provide the Transmission Provider with as much advance notice as reasonably practicable of the designation of new Network Load that will be added to its Transmission System. A designation of new Network Load must be made by a request for a modification of service pursuant to a new Application under Section 29. The Transmission Provider will use due diligence to install any transmission facilities required to interconnect a new Network Load designated by the Network Customer. The costs of new facilities required to interconnect a new Network Load shall be determined in accordance with the procedures provided in Section 32.4 and shall be charged to the Network Customer in accordance with Commission policies.

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31.3 Network Load Not Physically Interconnected With the Transmission Provider

This section applies to both initial designation pursuant to Section 31.1 and the subsequent addition of new Network Load not physically interconnected with the Transmission Provider. To the extent that the Network Customer desires to obtain transmission service for a load outside the Transmission Provider's Transmission System, the Network Customer shall have the option of: (i) electing to include the entire load as Network Load for all purposes under Part III of the Tariff and designating Network Resources in connection with such additional Network Load; or (ii) excluding that entire load from its Network Load and purchasing Point-To-Point Transmission Service under Part II of the Tariff. To the extent that the Network Customer gives notice of its intent to add a new Network Load as part of its Network Load pursuant to this section the request must be made by a request for modification of service pursuant to a new Application under Section 29.

31.4 New Interconnection Points

To the extent the Network Customer desires to add a new delivery point or interconnection point between the Transmission Provider's Transmission System and a Network Load, the Network Customer shall provide the Transmission Provider with as much advance notice as reasonably practicable.

31.5 Changes in Service Requests

Under no circumstances shall the Network Customer's decision to cancel or delay a requested change in Network Integration Transmission Service (e.g. the addition of a new Network Resource or designation of a new Network Load) in any way relieve the Network Customer of its obligation to pay the costs of transmission facilities constructed

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by the Transmission Provider and charged to the Network Customer as reflected in the Service Agreement. However, the Transmission Provider must treat any requested change in Network Integration Transmission Service in a non-discriminatory manner.

31.6 Annual Load and Resource Information Updates

The Network Customer shall provide the Transmission Provider with annual updates of Network Load and Network Resource forecasts consistent with those included in its Application for Network Integration Transmission Service under Part III of the Tariff including, but not limited to, any information provided under section 29.2(i) pursuant to the Transmission Provider's planning process in Attachment K. The Network Customer also shall provide the Transmission Provider with timely written notice of material changes in any other information provided in its Application relating to the Network Customer's Network Load, Network Resources, its transmission system or other aspects of its facilities or operations affecting the Transmission Provider's ability to provide reliable service.

32. Additional Study Procedures For Network Integration Transmission Service Requests

32.1 Notice of Need for System Impact Study

After receiving a request for service, the Transmission Provider shall determine on a non-discriminatory basis whether a System Impact Study is needed. A description of the Transmission Provider's methodology for completing a System Impact Study is provided in Attachment D. Subject to Attachment M-2, if the Transmission Provider determines that a System Impact Study is not necessary, the Transmission Provider shall within thirty (30) Calendar Days of receipt of a Completed Application tender a Service

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Agreement and, within fifteen (15) Calendar Days of the tendering of the Service Agreement, the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement, or the Application shall be deemed terminated and withdrawn. Subject to Attachment M-2, if the Transmission Provider determines that a System Impact Study is necessary to accommodate the requested service, it shall so inform the Eligible Customer, as soon as practicable. Subject to Attachment M-2, in such cases, the Transmission Provider shall within thirty (30) Calendar Days of receipt of a Completed Application, tender a System Impact Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required System Impact Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the System Impact Study Agreement and return it with a refundable deposit of \$50,000 in accordance with Attachment L to the Transmission Provider within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the System Impact Study Agreement or not to provide the required deposit in accordance with Attachment L, its Application shall be deemed withdrawn and its deposit shall be returned pursuant to Section 17.3.

32.2 System Impact Study Agreement and Cost Reimbursement

(a) The System Impact Study Agreement will clearly specify the Transmission Provider's estimate of the actual cost, and time for completion of the System Impact Study. The charge shall not exceed the actual cost of the study. In performing the System Impact Study, the Transmission Provider shall rely, to the extent reasonably practicable, on existing transmission planning studies. The Eligible Customer will not be assessed a charge for such existing studies; however, the Eligible Customer will be responsible for charges associated with any modifications to existing planning studies that are reasonably necessary to

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evaluate the impact of the Eligible Customer's request for service on the Transmission System.

- (b) If in response to multiple Eligible Customers requesting service in relation to the same competitive solicitation, a single System Impact Study is sufficient for the Transmission Provider to accommodate the service requests, the costs of that study shall be pro-rated among the Eligible Customers.
- (c) <u>ReservedFor System Impact Studies that the Transmission Provider conducts on</u> <u>its own behalf, the Transmission Provider shall record the cost of the System</u> <u>Impact Studies pursuant to Section 8</u>.

32.3 System Impact Study Procedures

Upon receipt of an executed System Impact Study Agreement, the Transmission Provider will use due diligence to complete the required System Impact Study within a sixty (60) Calendar Day period or as otherwise agreed to with the Network Customer. The System Impact Study shall identify (1) any system constraints, identified with specificity by transmission element or flowgate, (2) redispatch options (when requested by an Eligible Customer) including, to the extent it is voluntarily provided by the resource ownerpossible, an estimate of the cost of redispatch, (3) available options for installation of automatic devices to curtail service (when requested by an Eligible Customer), and (4) additional Direct Assignment Facilities or Network Upgrades required to provide the requested service. For customers requesting the study of redispatch options, the System Impact Study shall (1) identify all resources located within the Transmission Provider's Control Area that can significantly contribute toward relieving the system constraint and (2) provide a measurement of each resource's impact on the system constraint. If the Transmission Provider possesses information indicating that any resource outside its

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Control Area could relieve the constraint, it shall identify each such resource in the System Impact Study. In the event that the Transmission Provider is unable to complete the required System Impact Study within such time period, it shall so notify the Eligible Customer and provide an estimated completion date along with an explanation of the reasons why additional time is required to complete the required studies. A copy of the completed System Impact Study and related work papers shall be made available to the Eligible Customer as soon as the System Impact Study is complete. The Transmission Provider will use the same due diligence in completing the System Impact Study for an Eligible Customer as it uses when completing studies for itself. The Transmission Provider shall notify the Eligible Customer immediately upon completion of the System Impact Study if the Transmission System will be adequate to accommodate all or part of a request for service or that no costs are likely to be incurred for new transmission facilities or upgrades. In order for a request to remain a Completed Application, within fifteen (15) Calendar Days of completion of the System Impact Study the Eligible Customer must execute a Service Agreement or request the filing of an unexecuted Service Agreement, or the Application shall be deemed terminated and withdrawn.

32.4 Facilities Study Procedures

If a System Impact Study indicates that additions or upgrades to the Transmission System are needed to supply the Eligible Customer's service request, the Transmission Provider, within thirty (30) Calendar Days of the completion of the System Impact Study, shall tender to the Eligible Customer a Facilities Study Agreement pursuant to which the Eligible Customer shall agree to reimburse the Transmission Provider for performing the required Facilities Study. For a service request to remain a Completed Application, the Eligible Customer shall execute the Facilities Study Agreement and return it with a refundable deposit of \$100,000 in accordance with Attachment L to the Transmission

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Provider within fifteen (15) Calendar Days. If the Eligible Customer elects not to execute the Facilities Study Agreement or not to provide the required deposit in accordance with Attachment L, its Application shall be deemed withdrawn and its deposit shall be returned pursuant to Section 17.3. Upon receipt of an executed Facilities Study Agreement, the Transmission Provider will use due diligence to complete the required Facilities Study within a sixty (60) Calendar Day period or as otherwise agreed to with the Network Customer. If the Transmission Provider is unable to complete the Facilities Study in the allotted time period, the Transmission Provider shall notify the Eligible Customer and provide an estimate of the time needed to reach a final determination along with an explanation of the reasons that additional time is required to complete the study. When completed, the Facilities Study will include a good faith estimate of: (i) the cost of Direct Assignment Facilities to be charged to the Eligible Customer; (ii) the Eligible Customer's appropriate share of the cost of any required Network Upgrades; and (iii) the time required to complete such construction and initiate the requested service. As soon as the Facilities Study is complete, the Transmission Provider shall make a copy of the completed Facilities Study available and tender a Service Agreement to the Eligible Customer. The Eligible Customer shall provide the Transmission Provider with a letter of credit or other reasonable form of security acceptable to the Transmission Provider equivalent to the costs of new facilities or upgrades in accordance with Attachment O and consistent with commercial practices as established under the laws of Canada and the Province of British Columbia. After being tendered with a Service Agreement, the Eligible Customer shall have sixty (60) Calendar Days to execute a Service Agreement or request the filing of an unexecuted Service Agreement and provide the required letter of credit or other form of security or the request no longer will be a Completed Application and shall be deemed terminated and withdrawn.

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32.5 Penalties for Failure to Meet Study Deadlines

Section 19.9 defines penalties that apply for failure to meet the study completion due diligence deadlines for System Impact Studies and Facilities Studies under Part II of the Tariff. These same requirements and penalties apply to service under Part III of the Tariff.

33. Load Shedding and Curtailments

33.1 Procedures

Prior to the Service Commencement Date, the Transmission Provider and the Network Customer shall establish Load Shedding and Curtailment procedures pursuant to the Network Operating Agreement with the objective of responding to contingencies on the Transmission System. The Parties will implement such programs during any period when the Transmission Provider determines that a system contingency exists and such procedures are necessary to alleviate such contingency. The Transmission Provider will notify all affected Network Customers in a timely manner of any scheduled Curtailment.

33.2 Transmission Constraints

During any period when the Transmission Provider determines that a transmission constraint exists on the Transmission System, and such constraint may impair the reliability of the Transmission Provider's system, the Transmission Provider will take whatever actions, consistent with Good Utility Practice, that are reasonably necessary to maintain the reliability of the Transmission Provider's system. To the extent the Transmission Provider determines that the reliability of the Transmission System can be maintained by redispatching resources, the Transmission Provider will initiate procedures pursuant to the Network Operating Agreement to redispatch all Network

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Resources on a least-cost basis without regard to the ownership of such resources. Any redispatch under this section may not unduly discriminate among any Network Customer's use of the Transmission System to serve its designated Network Load.

33.3 Cost Responsibility for Relieving Transmission Constraints

Whenever the Transmission Provider implements least-cost redispatch procedures in response to a transmission constraint, the Network Customers will each bear a proportionate share of the total redispatch cost based on their respective Load Ratio Shares.

33.4 Curtailments of Scheduled Deliveries

If a transmission constraint on the Transmission Provider's Transmission System cannot be relieved through the implementation of least-cost redispatch procedures and the Transmission Provider determines that it is necessary to curtail scheduled deliveries, the Parties shall curtail such schedules in accordance with the Network Operating Agreement.

33.5 Allocation of Curtailments

The Transmission Provider shall, on a non-discriminatory basis, curtail the transaction(s) that effectively relieve the constraint. However, to the extent practicable and consistent with Good Utility Practice, any curtailment will be shared by the Network Customers in proportion to their respective Load Ratio Shares.

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33.6 Load Shedding

To the extent that a system contingency exists on the Transmission Provider's Transmission System and the Transmission Provider determines that it is necessary for the Network Customer to shed load, the Network Customer shall shed load in accordance with previously established procedures under the Network Operating Agreement.

33.7 System Reliability

Notwithstanding any other provisions of this Tariff, the Transmission Provider reserves the right, consistent with Good Utility Practice and on a not unduly discriminatory basis, to curtail Network Integration Transmission Service without liability on the Transmission Provider's part for the purpose of making necessary adjustments to, changes in, or repairs on its lines, substations and facilities, and in cases where the continuance of Network Integration Transmission Service would endanger persons or property. In the event of any adverse condition(s) or disturbance(s) on the Transmission Provider's Transmission System or on any other system(s) directly or indirectly interconnected with the Transmission Provider's Transmission System, the Transmission Provider, consistent with Good Utility Practice, also may curtail Network Integration Transmission Service in order to: (i) limit the extent or damage of the adverse condition(s) or disturbance(s); (ii) prevent damage to generating or transmission facilities; or (iii) expedite restoration of service. The Transmission Provider will give the Network Customer as much advance notice as is practicable in the event of such curtailment. The Transmission Provider shall specify the rate treatment and all related terms and conditions applicable in the event that the Network Customer fails to respond to established Load Shedding and Curtailment procedures.

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34. Rates and Charges

The Network Customer shall pay the Transmission Provider for any Direct Assignment Facilities, Ancillary Services, and applicable study costs pursuant to this Tariff, along with the following:

34.1 Monthly Demand Charge

The Network Customer shall pay a monthly Demand Charge, which shall be determined by multiplying its Load Ratio Share times one twelfth (1/12) of the Transmission Provider's Annual Transmission Revenue Requirement specified in Attachment H.

34.2 Determination of Network Customer's Monthly Network Load

The Network Customer's monthly Network Load is its hourly load expressed in terms of whole megawatts on a sixty (60) minute interval (commencing on the clock hour) basis (including its designated Network Load not physically interconnected with the Transmission Provider under Section 31.3) coincident with the Transmission Provider's Monthly Transmission System Peak.

34.3 Determination of Transmission Provider's Monthly Transmission System Load

The Transmission Provider's monthly Transmission System load is the Transmission Provider's Monthly Transmission System Peak minus the coincident peak usage of all Firm Point-To-Point Transmission Service customers pursuant to Part II of this Tariff plus the Reserved Capacity of all Firm Point-To-Point Transmission Service customers.

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34.4 Redispatch Charge

The Network Customer shall pay a Load Ratio Share of any redispatch costs allocated among the Network Customers pursuant to Section 33. To the extent that the Transmission Provider incurs an obligation to the Network Customer for redispatch costs in accordance with Section 33, such amounts shall be credited against the Network Customer's bill for the applicable month.

34.5 Stranded Cost Recovery

The Transmission Provider may seek to recover stranded costs from the Network Customer pursuant to this Tariff in accordance with the terms, conditions and procedures approved by the Commission.

35. Operating Arrangements

35.1 Operation Under the Network Operating Agreement

The Network Customer shall plan, construct, operate and maintain its facilities in accordance with Good Utility Practice and in conformance with the Network Operating Agreement.

35.2 Network Operating Agreement

The terms and conditions under which the Network Customer shall operate its facilities and the technical and operational matters associated with the implementation of Part III of the Tariff shall be specified in the Network Operating Agreement. The Network Operating Agreement shall provide for the Parties to: (i) operate and maintain equipment necessary for integrating the Network Customer within the Transmission Provider's

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Transmission System (including, but not limited to, remote terminal units, metering, communications equipment and relaying equipment); (ii) transfer data between the Transmission Provider and the Network Customer (including, but not limited to, heat rates and operational characteristics of Network Resources, generation schedules for units outside the Transmission Provider's Transmission System, interchange schedules, unit outputs for redispatch required under Section 33, voltage schedules, loss factors and other real time data); (iii) use software programs required for data links and constraint dispatching; (iv) exchange data on forecasted loads and resources necessary for long-term planning; and (v) address any other technical and operational considerations required for implementation of Part III of the Tariff, including scheduling protocols. The Network Operating Agreement will recognize that the Network Customer shall either: (i) operate as a Control Area under applicable reliability standards adopted by the Commissionguidelines of the North American Electric Reliability Council (NERC), the Western Electricity Coordinating Council (WECC) and the NorthWest Power Pool (NWPP); or (ii) satisfy its Control Area requirements, including all necessary Ancillary Services, by contracting with the Transmission Provider; or (iii) satisfy its Control Area requirements, including all necessary Ancillary Services, by contracting with another entity, consistent with Good Utility Practice, which satisfies applicable reliability NERC, WECC and NWPP requirements. The Transmission Provider shall not unreasonably refuse to accept contractual arrangements with another entity for Ancillary Services. The Network Operating Agreement is included in Attachment G.

35.3 Network Operating Committee

A Network Operating Committee (Committee) shall be established to coordinate operating criteria for the Parties' respective responsibilities under the Network Operating Agreement. Each Network Customer shall be entitled to have at least one representative

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on the Committee. The Committee shall meet from time to time as need requires, but no less than once each calendar year.

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ATTACHMENT A - Umbrella Agreement for Short-Term Firm or Non-Firm Point-To-Point Transmission Service

- This Agreement, dated as of ______, is entered into, by and between ______ (the Transmission Provider, or BCTCBC Hydro), and ______ (the Transmission Customer).
- 2. This Agreement shall come into force upon execution by both Parties. From the time this Agreement comes into force, the Transmission Customer shall be entitled to arrange Short-Term Firm and Short-Term Non-Firm transactions over OASIS without executing a Service Agreement provided that such transactions do not exceed \$______ in any calendar month. BCTCBC Hydro reserves the right to consent to larger monthly transactions on a case-by-case basis.
- Identify any affiliates that own, control or operate any transmission facilities. If there are none, include a sworn statement pursuant to Section 6.0 of Transmission Provider's OATT (the Tariff).
- 4. Billing and Payment
 - 4.1 <u>BCTCBC Hydro</u> will submit invoices to the Transmission Customer after the end of each month in which transactions were made.
 - 4.2 Canadian Transmission Customers will be invoiced in Canadian funds. US Transmission Customers will be invoiced in US funds, all using the exchange rate as <u>defined in the set by</u>-Transmission Provider's-<u>Business Practiceslead</u>

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bank at noon eastern time on the last business day of each month in which transactions occurred.

- 4.3 Payment shall be remitted in accordance with the terms and conditions of the Tariff.
- This Agreement shall remain in effect until terminated by either Party on at least thirty (30) Calendar Days written notice to the other. Notwithstanding termination, all commitments, transactions and payment liabilities incurred under this Agreement shall remain until satisfied.
- 6. Service under this Agreement shall be provided by the Transmission Provider upon request by an authorized representative of the Transmission Customer.
- 7. The Transmission Customer agrees to supply information the Transmission Provider deems reasonably necessary in accordance with Good Utility Practice in order for it to provide the requested service.
- 8. The Transmission Provider agrees to provide and the Transmission Customer agrees to take and pay for Short-Term Firm or Non-Firm Point-To-Point Transmission Service in accordance with the provisions of Part II of the Tariff and this Agreement.
- 9. Any notice or request made to or by either Party regarding this Agreement shall be made to the representative of the other Party as indicated below.

Transmission Provider:

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10. Miscellaneous

- 10.1 This Agreement shall be interpreted in accordance with the laws of the Province of British Columbia.
- 10.2 This Agreement shall be binding upon and shall inure to the benefit of the Parties and their respective successors.
- 10.3 This Agreement shall be subject to the Parties obtaining and maintaining any required regulatory approvals.
- 11. The signatories hereby represent that they have been appropriately authorized to execute this Agreement on behalf of the Party for whom they sign.
- 12. The Tariff is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective authorized officials.

Transmission Provider:

Ву:			
Name		Title	Date
Transmission Customer:			
Ву:			
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BC Hydro

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Name

Title

Date

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<u>BC Hydro</u> Open Access Transmission Tariff <u>Effective: 05 July 2010</u> OATT Attachment A-1 Page 1

ATTACHMENT A-1

Form of Service Agreement for the Resale, Reassignment, or Transfer of Short-Term Firm Point-To-Point Transmission Service

Reserved

Order No.: G 102 09

Issued by: Janet L. Fraser, Director Regulatory Affairs

Accepted Date:

Effective Date: 21 October 2009

BCUC Secretary: ACCEPTED:

ORDER NO.

Attachment A 1, original page 1



<u>BC Hydro</u> Open Access Transmission Tariff Effective: 05 July 2010 OATT Attachment B Page 1

ATTACHMENT B

-Form of Service Agreement for Long-Term Firm Point-To-Point Transmission Service

- This Service Agreement, dated as of ______, is entered into, by and between ______ (the Transmission Provider or BCTC)), BC Hydro), and ______ (the Transmission Customer).
- The Transmission Customer has been determined by the Transmission Provider to have a Completed Application for Long-Term Firm Point-To-Point Transmission Service under the Transmission Provider's OATT (the Tariff).
- 3. The Transmission Customer has provided to the Transmission Provider an Application deposit in accordance with the provisions of Section 17.3 of the Tariff or the Transmission Customer has satisfied the Creditworthiness Criteria as set out in Attachment L of the OATT.
- 4. Service under this agreement shall commence on the later of: (I) the requested service commencement date; or (2) the date on which construction of any Direct Assignment Facilities and/or Network Upgrades are completed; or (3) such other date as it is permitted to become effective by the Commission. Service under this agreement shall terminate on such date as mutually agreed upon by the parties.
- The Transmission Customer acknowledges that, prior to entering this Service Agreement, the Transmission Provider has determined that at the end of the contract term of this Service Agreement,

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- there is sufficient capacity to accommodate both the future rollover of this Service Agreement by the Transmission Customer and to provide service to Transmission Customers having earlier priority for transmission service.
- (b) there is insufficient capacity to accommodate both the future rollover of this Service Agreement by the Transmission Customer and transmission service to Transmission Customers having earlier priority. Therefore, even if there is sufficient capacity at the end of the contract term of this Service Agreement, the Transmission Customer has no rollover rights with respect to this Service Agreement.

[one of (a) or (b) to be deleted prior to tender]

- 6. The Transmission Provider agrees to provide and the Transmission Customer agrees to take and pay for Firm Point-To-Point Transmission Service in accordance with the provisions of Part II of the Tariff and this Service Agreement.
- 7. Any notice or request made to or by either Party regarding this Service Agreement shall be made to the representative of the other Party as indicated below.

Transmission Provider:

Transmission Customer:

Order No.: G 102 09

Issued by: Janet L. Fraser, Director Regulatory Affairs

Accepted Date:

Effective Date: 21 October 2009

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- 8. No failure by <u>BCTCBC Hydro</u> or the Transmission Customer at any time or from time to time to enforce or require a strict observance of any of the provisions of this Service Agreement shall constitute a waiver of the provision or affect or impair such provisions or the right of <u>BCTCBC Hydro</u> or the Transmission Customer at any time to enforce such provisions or to avail itself of any remedy it may have.
- 9. (a) This Service Agreement shall be construed in accordance with the laws of the Province of British Columbia; and
 - (b) <u>BCTCBC Hydro</u> and the Transmission Customer will promptly comply with all relevant laws and regulations and the relevant orders, rules and requirements of all authorities having jurisdiction.
- 10. Nothing contained in this Service Agreement shall restrict or limit either Party from establishing, altering or terminating interconnection points with any entity not a party to this Service Agreement or amending or entering into such agreements.
- 11. This Service Agreement shall inure to the benefit of and be binding upon the Parties and their respective successors.
- 12. The Tariff and the attached Specifications for Long-Term Firm Point-To-Point Transmission Service is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Parties have caused this Service Agreement to be executed by their respective authorized officials.

Transmission Provider:

Order No.: G 102 09

Issued by: Janet L. Fraser, Director Regulatory Affairs

Accepted Date:

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By: <u>Name</u>	Title	Date
Transmission Customer:		
By: <u>Name</u>	Title	Date

Order No.: G 102 09

Issued by: Janet L. Fraser, Director Regulatory Affairs

Accepted Date:

Effective Date: 21 October 2009

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<u>BC Hydro</u> Open Access Transmission Tariff <u>Effective: 05 July 2010</u> OATT Attachment B Page 5

Specifications For Long-Term Firm Point-To-Point Transmission Service

- 3. Point(s) of Receipt: _____ Delivering Party: _____
- 4. Point(s) of Delivery: ______ Receiving Party: _____

5. Maximum amount of capacity and energy to be transmitted (Reserved Capacity):

6. Designation of party(ies) subject to reciprocal service obligation:

- 7. Name(s) of any Intervening Systems providing transmission service:
- 8. Service under this Agreement may be subject to some combination of the charges detailed below. (The appropriate charges for individual transactions will be determined in accordance with the terms and conditions of the Tariff.)

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8.1 Transmission Charge:

8.2 System Impact and/or Facilities Study Charge(s):

8.3 Direct Assignment Facilities Charge:

8.4 Ancillary Services Charges:

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ATTACHMENT B-1

Form of Service Agreement for the Resale, Reassignment, or Transfer of Long-Term Firm Point-To-Point Transmission Service

Reserved

Order No.: G 102 09

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ORDER NO

<u>Den Access Transmission Tariff</u> <u>Effective: 05 July 2010</u> OATT Attachment C Page 1

ATTACHMENT C

Methodology To Assess Available Transfer Capability

The Transmission Provider will assess the capability of the Transmission System to provide the services requested using its published criteria, standards and procedures.

In determining the level of transfer capability that is available to meet new Transmission Service requests, the Transmission Provider will exclude from the total transfer capability of the Transmission System that capacity needed to reliably meet:

- 1. the current and reasonably forecasted load of Network Customers;
- 2. existing firm Point-to-Point Transmission Services;
- previously received pending Applications for firm Point-to-Point Transmission Service; and
- 4. existing contractual obligations under other tariffs, rate schedules and contracts.

Notwithstanding any other provision in this Tariff, the Transmission Provider shall limit sales of Firm Point-to-Point Transmission Service on the BC>AB path to 480 MW.

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ATTACHMENT D

Methodology for Completing a System Impact Study

BCTCBC Hydro will perform system planning studies and apply its published planning criteria, standards and procedures to determine the impacts of the requested Transmission Service. The transfer capability of the system will be assessed for the period of the requested service to determine if the requested service can be accommodated. Thermal loading, transient stability, and voltage stability limits will be investigated for normal and outage conditions. If this analysis indicates that the requested Transmission Service cannot be accommodated, then alternative reinforcements will be investigated. A least cost transmission expansion plan will be developed for consideration by BCTCBC Hydro and the Transmission Customer and will include but not be limited to the following considerations: technical, economic, reliability, losses, environmental and social. The Transmission Customer can decide whether to proceed, modify, or cancel its request. More details can be found in the BCTCBC Hydro System Planning document entitled "Planning Process".

Order No.: G 58 05

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Attachment D, original page 1



<u>BC Hydro</u> Open Access Transmission Tariff <u>Effective: 05 July 2010</u> OATT Attachment E Page 1

ATTACHMENT E

Index of Point-To-Point Transmission Service Customers

Customer

Date of Service Agreement

Order No.: G 58 05

Issued by: Marcel Reghelini, Director Regulatory Affairs

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Effective Date: 1 March 2006

BCUC Secretary: ACCEPTED:

ORDER NO.

Attachment E, original page 1



<u>BC Hydro</u> Open Access Transmission Tariff Effective: 05 July 2010 OATT Attachment F Page 1

ATTACHMENT F

– Form of Service Agreement for

_Network Integration Transmission Service

This Service Agreement, dated as of ______, is entered into, by and between ______ (the "Transmission Provider" or "BCTC"), BC Hydro), and ______ (the "Transmission Customer").

- The Transmission Customer has been determined by the Transmission Provider to have a Completed Application for Network Integration Transmission Service under the Transmission Provider's OATT (the <u>"Tariff").</u>).
- 3. The Transmission Customer has provided to the Transmission Provider any Application deposit required under the provisions of Section 29.2 of the Tariff.
- 4. Service under this agreement shall commence on the later of: -(<u>1</u>) the requested service commencement date; or (2) the date on which construction of any Direct Assignment Facilities and/or Network Upgrades are completed; or (3) such other date as it is permitted to become effective by the British Columbia Utilities Commission.- Service under this agreement shall terminate on such date as mutually agreed upon by the parties.
- 5. The Transmission Provider agrees to provide and the Transmission Customer agrees to take and pay for Network Integration Transmission Service in accordance with the provisions of Part III of the Tariff and this Service Agreement.
- 6. Any notice or request made to or by either Party regarding this Service Agreement shall be made to the representative of the other Party as indicated below.

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British Columbia Transmission Corporation Open Access Transmission Tariff

<u>BC Hydro</u> Open Access Transmission Tariff <u>Effective: 05 July 2010</u> OATT Attachment F Page 2

Order No.: G 58 05

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<u>BC Hydro</u> Open Access Transmission Tariff Effective: 05 July 2010 OATT Attachment F Page 3

Transmission Provider:

Transmission Customer:

- 7. No failure by <u>BCTCBC Hydro</u> or the Transmission Customer at any time or from time to time to enforce or require a strict observance of any of the provisions of this Service Agreement shall constitute a waiver of the provision or affect or impair such provisions or the right of <u>BCTCBC Hydro</u> or the Transmission Customer at any time to enforce such provisions or to avail itself of any remedy it may have.
- (a) This Service Agreement shall be construed in accordance with the laws of the Province of British Columbia; and
 - (b) <u>BCTCBC Hydro</u> and the Transmission Customer will promptly comply with all relevant laws and regulations and the relevant orders, rules and requirements of all authorities having jurisdiction.
- Nothing contained in this Service Agreement shall restrict or limit either Party from establishing, altering or terminating interconnection points with any entity not a party to this Service Agreement or amending or entering into such agreements.
- 10. This Service Agreement shall inure to the benefit of and be binding upon the Parties and their respective successors.

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<u>BC Hydro</u> Open Access Transmission Tariff Effective: 05 July 2010 OATT Attachment F Page 4

- 11. The Network Operating Agreement containing the terms and conditions under which the Transmission Customer will operate its facilities and the technical specifications associated with service under this Service Agreement are hereby incorporated and made part of this Service Agreement as Appendix C.
- 12. The Tariff and the attached Specifications For Network Integration Transmission Service is incorporated herein and made a part hereof.

IN WITNESS WHEREOF, the Parties have caused this Service Agreement to be executed by their respective authorized officials.

Transmission Provider:		
By: Name	Title	Date
Transmission Customer:		
Ву:		
Name	Title	Date

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BC Hydro **Open Access Transmission Tariff** Effective: 05 July 2010 OATT Attachment F Page 5

Specifications For Network Integration Transmission Service

1. Term of Transaction: _____ Start Date:

Termination Date:	
Terrination Date.	

- 2. Description of capacity and/or energy to be transmitted by the Transmission Provider across its Transmission System (including electric control area in which the transaction originates).
- 3. **Network Resources**

Transmission Customer Generation Owned: (1) Resource Capacity Capacity Designated as Network Resources

Transmission Customer Generation Purchased: (2) Source **Capacity**

- Total Network Resources: (1) + (2) =(3)
- 4. Network Load: Network Load
 - Transmission Voltage Level
- 5. Point(s) of Interconnection:

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6. Point(s) of Delivery:

Delivering Party:

- 7. Designation of Party subject to reciprocal service obligation:
- 8. Name(s) of any Intervening Systems providing transmission service:

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<u>BC Hydro</u> Open Access Transmission Tariff <u>Effective: 05 July 2010</u> OATT Attachment G Page 1

ATTACHMENT G

– Network Operating Agreement

This Network Operating Agreement (the "Agreement"), is made and entered into this ______day of ______, 2__, by and between _____(Customer) ______(hereinafter referred to as the "Transmission Customer") and the British Columbia Transmission Corporation (hereinafter referred to as "BCTC"). <u>BC Hydro</u>. The Transmission Customer and <u>BCTCBC</u> <u>Hydro</u> hereinafter are sometimes referred to individually as "Party" and collectively as "Parties", as the context suggests below.

In consideration of the promises and mutual covenants and agreements herein contained, the Parties do agree as follows:

1. <u>Definitions</u>

Unless otherwise specified herein, capitalized terms shall refer to terms defined in the Transmission Provider's OATT (the "Tariff")...). When the terms Load Responsibility, Regulating Margin, Most Severe Single Contingency ("(MSSC"),). Supplemental Reserves, Operating Reserves, and Spinning Reserves are used in this Agreement, the WECC definitions of those terms apply.

2. Purpose of Agreement

<u>BCTCBC Hydro</u> and the Transmission Customer agree that the provisions of this Agreement and the Network Service Agreement for Network Integration Service govern <u>BCTC'sBC Hydro's</u> provision of Transmission Service to the Network Customer.- This Agreement requires the Parties to:

- 2.1 Operate and maintain equipment necessary for incorporating the Transmission Customer within <u>BCTC'sBC Hydro's</u> Transmission System (including, but not limited to, remote terminal units, metering, communications equipment and relaying equipment);
- 2.2 Transfer data (including but not limited to, heat rates, fuel costs, and operational characteristics of Network Resources, generation schedules for Network Resources, interchange schedules, unit outputs for redispatch required under Part III of the Tariff, voltage schedules, flows of real and reactive power, loss factors, switch status, breaker status, MW/MVAR flow on lines, bus voltages, transformer taps and other SCADA and real time data) between their respective control centers;

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- 2.3 Use software programs required for data links and constraint dispatching;
- 2.4 Exchange data on forecasted load and resources necessary for planning and operation; and
- 2.5 Address any other technical and operational considerations required for implementation of Part III of the Tariff, including scheduling protocol.
- 3. Integration and Control Area Requirements

The Transmission Customer shall:

- (a) Provide all Ancillary Services itself, including those necessary to operate as a control area under applicable guidelines of the North American-Electric Reliability Council ("(NERC"), the Western Electricity Coordinating Council ("(WECC")) and the Northwest Power Pool ("(NWPP");); or
- (b) Satisfy its control area requirements, including all Ancillary Services, by contracting with <u>BCTCBC Hydro</u>; or
- (c) Satisfy its control area requirements, including all Ancillary Services, by contracting with another entity which can satisfy those requirements in a manner that is consistent with Good Utility Practice and satisfies NERC, WECC and NWPP standards.

The Transmission Customer shall plan, construct, operate and maintain its facilities and system in accordance with Good Utility Practice, which shall include, but not be limited to, <u>all applicable reliability standards as approved by the BCUC</u>, all applicable guidelines of NERC, WECC and NWPP, as they may be modified from time to time, and any generally accepted_practices in the region. This Agreement will be revised as necessary to incorporate changes to <u>BCTC'sBC Hydro</u> Control Area requirements.

- 4. <u>Network Operating Committee</u>
- 4.1 Membership The Network Operating Committee shall be composed of representatives from the Transmission Customers taking service under Part III of the Tariff and <u>BCTCBC</u> <u>Hydro</u>, or their Designated Agents.
- 4.2 Responsibilities The Network Operating Committee shall:

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<u>Open Access Transmission Tariff</u> <u>Effective: 05 July 2010</u> OATT Attachment G Page 3

- (a) Adopt rules and procedures consistent with this Agreement and the Tariff governing operating and technical requirements necessary for implementation of the Tariff;
- (b) Review Network Resources and Network Loads on an annual basis in order to assess the adequacy of the transmission network; and
- (c) Obtain from <u>BCTCBC Hydro</u> its operating policies, procedures and guidelines for network interconnection and operation.

5. <u>Regulation and Frequency Response</u>

The Transmission Customer shall meet its proportional share of Regulating Margin by either:

- (a) Purchasing Regulation and Frequency Response Services from <u>BCTCBC Hydro</u> pursuant to its Rate Schedule <u>10505</u>; or
- (b) Contributing or arranging to have a third party contribute generating resources to meet the Regulating Margin requirement for the current year as follows:

Regulating Margin Requirement = Transmission Customer's maximum Network Load in the previous year x 2%

A Transmission Customer that meets its proportional share of Regulating Margin by alternative (b) above shall also meet the requirements of Section 16 below.

6. <u>Operating Reserve</u>

- 6.1 The Transmission Customer shall meet its share of the Control Area's Operating Reserve requirements by either:
 - Purchasing Operating Reserve Services from <u>BCTCBC Hydro</u> pursuant to Rate Schedules <u>10707</u> and <u>108;08</u> or
 - (b) Providing or arranging to have a third party provide the Operating Reserve requirement.

A Transmission Customer that meets its share of the Control Area's Operating Reserve requirement by alternative (b) above shall also meet the requirements of Section 16

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below. -The Operating Reserve requirement is as specified by the <u>applicable reliability</u> <u>standards as approved by the BCUC</u>, <u>WECC and NWPP</u> and implemented by <u>BCTC</u>. <u>InasmuchBC Hydro</u>. In as <u>BCTC much as BC Hydro</u> is obligated to meet<u>the</u> WECC's and NWPP's requirements, as they may be modified from time to time<u>including the</u> <u>applicable BCUC approved Mandatory Reliability Standards</u>, the Transmission Customer recognizes and agrees that its proportional share of the Operating Reserve requirement may change to reflect WECC and NWPP modifications.

6.2 In order to facilitate the use of Operating Reserve, the Transmission Customer that meets its share of the Control Area's Operating Reserve requirement by alternative 6.1(b) shall have available unloaded reserved firm transmission capacity at least equal to that Operating Reserve amount. Such transmission may be loaded with interruptible energy so that, upon interruption of the energy, Transmission Service is available to replace such energy from the Operating Reserve.

In addition, the Transmission Customer shall restore Operating Reserve to the required level as promptly as practicable, but shall not exceed sixty (60) minutes from the time of the event necessitating the loading of the reserve.

7. Redispatch To Manage Transmission System Constraints

If <u>BCTCBC Hydro</u> determines that the redispatch of Network Resources (including reductions in purchases from outside of <u>BCTC'sBC Hydro</u> Control Area) to relieve an existing or potential Transmission System constraint is the most effective way to ensure the reliable operation of the Transmission System, <u>BCTCBC Hydro</u> will redispatch its and the Transmission Customer's Network Resources on a least-cost basis, without regard to the ownership of such resources. <u>BCTCBC Hydro</u> will apprise the Transmission Customer of its redispatch practices and procedures, as they may be modified from time to time.

The Transmission Customer will submit verifiable incremental and decremental cost data for its Network Resources, which estimates the cost to the Transmission Customer of changing the generation output of each of its Network Resources, to <u>BCTCBC Hydro</u> when submitting its preschedules.- These costs will be used, along with similar data for any other Network Customers' resources, as the basis for least-cost redispatch for the next day's operations (or the next day's operations if the preschedule is submitted on a Friday or the day before a holiday). <u>BCTCBC Hydro</u> will keep these data confidential.- If the Transmission Customer must submit those changes to <u>BCTC'sBC Hydro's</u> control centre. <u>BCTCBC Hydro</u> will implement least-cost redispatch consistent with its existing

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contractual obligations and its current practices and procedures for its own resources. The Transmission Customer is obligated to respond immediately to requests for redispatch from <u>BCTC'sBC Hydro's</u> control centre.- The Transmission Customer may audit particular redispatch events at its own expense, during normal business hours following reasonable notice to <u>BCTC. BC Hydro.</u> If such audit shows that Transmission Customer's resources have been redispatched in preference to lower cost alternatives for other than emergency reasons, the cost of the audit shall be borne by <u>BCTC. BC</u> <u>Hydro.</u> Either the Transmission Customer or <u>BCTCBC Hydro</u> may request an audit of the other Party's cost data by an independent agent at the requester's cost.

8. <u>Curtailability</u>

BCTCBC Hydro reserves the right to curtail all or part of Transmission Service due to conditions which physically cause a reduction in the transmission path(s).- Such conditions include, but are not limited to, forced outages of one or more elements of the transmission path, nomogram restrictions, and unscheduled loop flows.

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Whenever possible and consistent with Good Utility Practice, loads will be curtailed based on load ratio share.- When such conditions no longer restrict the capability of the transmission path, Network Integration Transmission Service will be resumed.

- 9. <u>Maintenance of Facilities</u>
- 9.1 The Network Operating Committee shall establish procedures to coordinate the maintenance schedules of the generating resources and transmission and substation facilities, to the greatest extent practical, to ensure sufficient transmission resources are available to maintain system reliability and reliability of service. -By 1 December of each year, the Transmission Customer shall provide to <u>BCTCBC Hydro</u> the maintenance schedules and planned outages of each Network Resource for the next year and update the information at least thirty (30) days in advance of the date specified for the forecasted maintenance outage.- Such information shall include, but not be limited to, the expected time the unit will be separated from the system and the time at which the unit is available for:
 - (a) Synchronizing parallel operation;
 - (b) Loading; and
 - (c) If applicable, to be put on automatic generation control.
- 9.2 The Transmission Customer shall obtain:
 - (a) Concurrence from <u>BCTCBC Hydro</u>, at least seventy-two (72) hours before beginning any scheduled maintenance of its facilities; and
 - (b) Clearance from <u>BCTCBC Hydro</u> when the Transmission Customer is ready to begin maintenance on a Network Resource, transmission line, or substation (operated at 60 kilovolt and above).

The Transmission Customer shall immediately notify <u>BCTCBC Hydro</u> at the time when unscheduled or forced outages end.- The Transmission Customer shall notify and coordinate with <u>BCTCBC Hydro</u> prior to reparalleling the Network Resource, transmission line, or substation.

9.3 Maintenance schedules will be posted on an electronic bulletin board.

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<u>BC Hydro</u> Open Access Transmission Tariff <u>Effective: 05 July 2010</u> OATT Attachment G Page 7

10. Load Shedding

10.1 The Parties shall implement load shedding programs to maintain the reliability and integrity of the Control Area, as provided in Section 29 of the Tariff. -Load shedding shall include:

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- (a) Automatic load shedding;
- (b) Manual load shedding; and
- (c) Rotating interruption of customer load.

BCTCBC Hydro will order load shedding to maintain the relative sizes of load served, unless otherwise required by circumstances beyond the control of BCTCBC Hydro or the Transmission Customer.- Automatic load shedding devices will operate without notice. -When manual load shedding or rotating interruptions are necessary, BCTCBC Hydro shall notify the Transmission Customer's dispatchers or schedulers of the required action and the Transmission Customer shall comply immediately.

- 10.2 The Transmission Customer shall, at its own expense, provide, operate and maintain in service high-speed digital under frequency load-shedding equipment. -The Transmission Customer's equipment shall be:
 - (a) Compatible and coordinated with the Transmission System load shedding equipment; and
 - (b) Set for the amount of load to be shed with frequency trips and tripping time consistent with <u>BCTCBC Hydro</u> requirements.

In the event <u>BCTCBC Hydro</u> modifies the load-shedding system, the Transmission Customer shall, at its expense, make changes to the equipment and setting of such equipment, as required.- The Transmission Customer shall test and inspect the loadshedding equipment within 90 days of taking Long Term Service under the Tariff and at least once each year thereafter and provide a written report to <u>BCTCBC Hydro</u>. <u>BCTC</u> <u>BC Hydro</u> may request a test of the load-shedding equipment with reasonable notice.

- 11. <u>Recognition of Power and Energy Flow</u>
- 11.1 The Parties recognize that:
 - (a) <u>BCTC'sBC Hydro's</u> Transmission System is, and will be, directly or indirectly interconnected with Transmission Systems owned or operated by others;

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- (b) The flow of power and energy between such systems will be controlled by the physical and electrical characteristics of the facilities involved and the manner in which they are operated; and
- (c) Part of the power and energy being delivered under this Agreement may flow through such other systems rather than through the facilities of <u>BCTCBC Hydro</u>.

The Network Operating Committee shall, from time to time as necessary, determine methods and take reasonably appropriate action to assure maximum delivery of power and energy at the points of receipt and delivery and at such additional or alternate points of receipt and delivery as may be established by the Parties.

- 11.2 Each Party will at all times cooperate with other interconnected systems in establishing arrangements or mitigation measures to minimize operational impacts on each other's systems.
- 11.3 Each Party recognizes that a Party's proposed new interconnection or modification of an existing interconnection between that Party's system and the system of a third party, may cause adverse anticipated effects on the system of the other Party. -The Party making such interconnection or modification shall minimize, or otherwise compensate for, adverse operational effects to the other Party's system.

12. Service Conditions

The Parties recognize that operating and technical problems may arise in the control of the frequency and in the flow of real and reactive power over the interconnected Transmission Systems. -The Network Operating Committee may adopt operating rules and procedures as necessary to assure that, as completely as practical, the delivery and receipt of real and reactive power and energy hereunder shall be accomplished in a manner that causes the least interference with such interconnected systems.

A Transmission Customer interconnecting with <u>BCTC'sBC Hydro's</u> Transmission System is obligated to follow the same practices and procedures for interconnection and operation that <u>BCTCBC Hydro</u> uses for other Network Customer load and resources.

Where the Transmission Customer purchases Ancillary Services from third parties, the Transmission Customer shall have the responsibility to secure contractual arrangements with such third parties that are consistent with the Tariff, this Agreement and any applicable rules and procedures of the Network Operating Committee.

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13. Data, Information and Reports

- 13.1 The Transmission Customer shall, upon request, provide <u>BCTCBC Hydro</u> with such reports and information concerning its network operation as are reasonably necessary to enable <u>BCTCBC Hydro</u> to operate its Transmission System adequately.
- 13.2 Scheduling hourly transactions from outside of <u>BCTCBC Hydro</u> Control Area, in whole megawatts, are prescheduled by voice or fax or electronically.- Schedules can be changed no later than 20 minutes (or a reasonable time that is generally accepted

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in the region and is consistently adhered to by the Transmission Provider) before the schedules go into effect.

The Transmission Customer shall notify <u>BCTCBC Hydro</u> of intended imports into the Control Area for the next normal business day(s) by voice or electronically no later than 10:00-_a.m. (or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider) on the day prior. No later than 2:00 p.m. (or a reasonable time that is generally accepted in the region and is consistently adhered to by the Transmission Provider) of each normal business day, the Transmission Customer shall finalize import preschedules by voice or fax or electronically. -Such preschedules and forecasts shall include, as applicable:

- (a) Each import into or export out of the Control Area;
- (b) Each power purchase and sale from within the Control Area;
- (c) Losses;
- (d) Generation from each Network Resource;
- (e) Network Load at each point designated in Section 4 of the Specifications For Network Integration Transmission Service attached to the Service Agreement;
- (f) Regulation and Frequency Response requirement;
- (g) Spinning or Supplemental Reserve from each Network Resource;
- Spinning or Supplemental Reserve purchase from <u>BCTCBC Hydro</u> or each third party;
- (i) The Transmission Customer's MSSC;
- (j) Available capacity from each Network Resource;
- (k) Transmission Service associated with each preschedule and forecast;
- (I) Incremental and decremental cost data for Network Resources; and
- (m) Other information, as required by <u>BCTCBC Hydro</u>.

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13.3 Annual Forecast - By 15 September of each year, the Transmission Customer shall update its load and resource forecast -by providing <u>BCTCBC Hydro</u> with a non-binding forecast in a format specified by <u>BCTCBC Hydro</u>.

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- 13.4 Monthly Forecast Five (5) days before the end of the month, the Transmission Customer shall update the forecast for the following month specifying purchase, generation, maximum demand, total monthly energy and Operating Reserve Services from <u>BCTCBC Hydro</u> or a third party.
- 13.5 The Transmission Customer shall telemeter to <u>BCTCBC Hydro</u> information including but not limited to watts, vars, generator status, generator breaker status, generator terminal voltage and high side transformer voltage, unless otherwise agreed.
- 13.6 The Transmission Customer shall provide generating resource characteristics to <u>BCTCBC Hydro</u> as necessary to implement redispatch and constraint and reserve management.

14. Metering

- 14.1 Unless otherwise agreed the Transmission Customer shall be responsible for the cost of installing and maintaining revenue meters and communication equipment compatible with <u>BCTC'sBC Hydro's</u> meter reading system and facility standards.- Revenue quality metering equipment and meters shall be installed at the high voltage bus at each point of interconnection between the Transmission Customer's facility and <u>BCTC'sBC Hydro's</u> system.- The meters shall measure and record both real power (watts) and reactive power (vars) flow and line losses, if applicable, in both directions. -Meters not installed at the high voltage bus or at the point of interconnection shall be adjusted for losses.
- 14.2 BCTCBC Hydro shall read or retrieve meter data on the first work day after the end of each billing cycle or such other date as may be required to carry out the provision of this Tariff. BCTCBC Hydro shall process the meter data and determine energy imbalances, accounting and billing using such meter data.
- 14.3 The meter owner shall test revenue meters for power deliveries made at 60kV and above at least once a year and within 10 business days after a request by the other Party. -The other Party will be afforded the opportunity to be present during the meter test.- For meters owned by <u>BCTCBC Hydro</u>, the Transmission Customer may request a meter test by calling the designated customer account representative of <u>BCTCBC Hydro</u> and shall pay for the cost of the requested test if the meter has been tested within the previous 12 months.- The Parties present at the meter test. -The meter owner shall immediately repair, adjust or replace any meter or associated equipment found to be defective or inaccurate. -An inaccurate meter is a meter that exceeds 2% of the calibrated standards.

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14.4 <u>BCTCBC Hydro</u> shall adjust the recorded data to compensate for the effect of an inaccurate meter.– Such adjustment shall be made for a maximum period of 30 days prior to the date of the test or to the period during which such inaccuracy may be determined to have existed, whichever period is shorter. -No adjustment prior to

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<u>14.4</u> the beginning of the next preceding month shall be made except by agreement of the Parties.- Should any meter fail to register, <u>BCTCBC Hydro</u> shall estimate, from the best information available, the demand created, energy flow and var flows during the period of the failure. <u>BCTCBC Hydro</u> shall, as soon as possible, correct the Transmission Customer's bills affected by the inaccurate meter.- That correction, when made, shall constitute full adjustment of any claim arising out of the inaccurate meter for the period of the correction.

15. <u>Communications</u>

- 15.1 The Transmission Customer shall, at its own expense, install and maintain a voice communication link for scheduling.
- 15.2 A Transmission Customer contributing to Regulation and Frequency Response requirement and Operating Reserve requirements or securing the requirements from a third party shall, at its own expense, install and maintain telemetry equipment communicating between the generating resource and BCTCBC Hydro.

16. Requirements to Contribute to System Regulation and Operating Reserve

The Transmission Customer who is not purchasing Regulation and Frequency Response and Operating Reserve Services from BCTCBC Hydro shall operate its generating resources in a manner similar to that of BCTCBC Hydro including following voltage schedules, free governor response, meeting power factor requirements at the point of interconnection with BCTC'sBC Hydro's system, and such other criteria as may be developed by BCTCBC Hydro or the Network Operating Committee.- The Transmission Customer shall pay the cost of modification of BCTC'sBC Hydro's computer hardware and software to accommodate the Transmission Customer's contribution to Regulation and Frequency Response requirement and Operating Reserve.- Any resources used by the Transmission Customer to meet its proportional share, whether the Transmission Customer's Network Resources or a third party's generating resources, shall meet the same requirements as BCTC'sBC Hydro's generating resources used to meet the Regulation and Frequency Response requirement and Operating Reserve requirements, including but not limited to, automatic generation control capability, ramp rate, and governor response, and are subjected to random testing, and if applicable, a monthly start-up test.

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17. Assignment

This Agreement shall inure to the benefit of and be binding upon the Parties hereto and their respective successors and assigns, but shall not be assigned by either Party, except to successors to all or substantially all of the electric properties and assets of such Party, without the written consent of the other Party.

18. <u>Notice</u>

Any notice or request made to or by either Party regarding this Agreement shall be made to the representative of the other Party as indicated in the Network Service Agreement. This agreement is attached thereto as Appendix C.

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IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective authorized officials.

BRITISH COLUMBIA BC HYDRO TRANSMISSION CORPORATION	(TRANSMISSION CUSTOMER)
Ву:	Ву:
Title:	Title:
Date:	Date:

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ATTACHMENT H <u>– Annual Transmission Revenue Requirement</u> for Network Integration Transmission Service

- 1. The Annual Transmission Revenue Requirement for purposes of the Network Integration Transmission Service shall be \$513,900,000.
- 2. The amount in (1) shall be effective until amended by the Transmission Provider or modified by the Commission.

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ATTACHMENT I

_Index of Network Integration Transmission Service Customers

Customer

Date of Service Agreement

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ATTACHMENT J

Procedures for Addressing Parallel Flows

Reserved

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ATTACHMENT K

— Transmission Planning Process

1. Description And Purpose Of The Planning Process

This Attachment describes the Transmission Provider's biennial process for planning capital projects for the purpose of expanding the capability of the Transmission System to meet potential requirements and opportunities over a 10-year planning horizon. The Transmission Provider's Planning Process described in this Attachment begins with an Initiation Phase providing for the exchange of information between Stakeholders and the Transmission Provider. Over the course of the Planning Process, Stakeholders may make comments on draft plans, submit requests for Economic Planning Studies and participate in Consultation Meetings and Technical Review Groups. The Planning Process ends with the formation of a Transmission Plan, which is a collection of projects in various stages of development, from an initial study of the project to implementation, that are designed to meet the potential needs and requirements identified in the Planning Process.

After the completion of the Planning Process as described herein, the Transmission Provider in its sole discretion will select the projects in the Transmission Plan for inclusion in its Growth Capital Portfolio.

This Attachment K does not place obligations on the Transmission Provider to construct upgrades or facilities identified in a study or its Transmission Plan. This Attachment K supports, but does not replace the Transmission Provider's construction-related obligations in other portions of the Tariff. Point-to-Point Transmission Service, Network Integration Transmission Service and Interconnection Service requests are governed by

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and studied in accordance with other portions of the Tariff. Where possible, these study processes will be incorporated into the Planning Process in this Attachment K.

2. Definitions

Consultation Meeting means a meeting to provide information and to solicit input from Stakeholders on the Transmission Provider's planning of the Transmission System. Consultation Meetings are open to all Stakeholders. The Transmission Provider will announce Consultation Meetings via e-mail to Stakeholders and will post the announcement on the Transmission Provider's public website.

Commission means the British Columbia Utilities Commission

Economic Planning Studies means studies that evaluate potential upgrades or other investments that could reduce congestion or integrate new resources and loads on an aggregated or regional basis. Stakeholders may request Economic Planning Studies in the Initiation Phase of the Planning Process. The Transmission Provider may limit the number of Economic Planning Studies it undertakes in each planning cycle, depending on available resources. Economic Planning Study Requests that are not performed may be carried forward to the next planning cycle for consideration. The conducting of an Economic Planning Study in no way imposes any obligation on the Transmission Provider to fund, assign cost responsibility, or otherwise determine whether any economic project should be implemented.

First Nations Engagement Process means a process to consider the specific interests and needs of affected First Nations.

Initiation Phase means the stage of the Planning Process described in Section 3.

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Planning Manual means the document produced and updated from time to time by the Transmission Provider that describes the basic methodology, criteria and assumptions used by the Transmission Provider in the Planning Process.

Planning Process means the process of planning Projects described in this Attachment for the purpose of expanding the capability of the Transmission System in order to meet potential requirements and opportunities. The Planning Process includes the Initiation Phase, Study Plan Development Phase, Study Phase, and Transmission Plan Development Phase.

Point of Contact means the contact at the Transmission Provider designated by the Transmission Provider to whom all information and inquiries related to the Planning Process should be directed. Point of Contact information shall be posted on the Transmission Provider's public website.

Project means a capital project to expand the capability of the Transmission System to meet potential requirements and opportunities.

Stakeholder means any person affected by the Planning Process, such as a transmission customer, interconnection customer, or neighbouring transmission provider as the case may be.

Study Phase means the phase of the Transmission Provider's Planning Process described in Section 5.

Study Plan Development Phase means the stage of the Planning Process described in Section 4.

 Technical Review Group means a group of Stakeholders formed to provide the

 Transmission Provider with input on the assessment of planning alternatives that meet in

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accordance with the Terms of Reference for Technical Review Groups found in Appendix 1 to this Attachment.

Transmission Plan means a collection of Projects that meets the needs identified in the study plan developed pursuant to Section 4.

Transmission Plan Development Phase means the phase of the Transmission Provider's Planning Process described in Section 6.

WECC means the Western Electricity Coordinating Council.

3. Initiation Phase

3.1 Initiation of the Planning Process

The Transmission Provider will announce the initiation of the Planning Process via electronic mail to Stakeholders and on its public website. The announcement will include a description of the planning process, including milestones and an anticipated schedule, instructions on how to access the Transmission Provider's planning information and instructions for providing planning information and requests for Economic Planning Studies to the Transmission Provider. The announcement will also indicate the number of Economic Planning Studies that may be performed within the Planning Process.

3.2 Stakeholder Mailing List

The Transmission Provider will maintain a Stakeholder mailing list including customers, neighbouring transmission providers, the Commission and affected parties that have expressed interest in the Transmission Provider's consultation activities. Stakeholders may request to be added to the list through the Transmission Provider's Point of Contact.

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3.3 Submission of Customer Planning Information

The Transmission Provider will establish a business practice in consultation with customers regarding the format and procedure for the submission of planning information to the Transmission Provider. The business practice will address how and when the following will occur:

- (a) Stakeholders may submit written requests for Economic Planning Studies.
- (b) Network Customers shall provide updates to their 10-year forecasts on Network Loads and Network Resources, Contingency Resource Plans and the other information contemplated by Section 31.6 and Attachment P of the Tariff.
- (c) Transmission Customers receiving Long-Term Firm Point-to-Point Transmission service shall provide a 10-year projection of the need for and usage of Long-Term Firm Point-to-Point Transmission service on the Transmission System including receipt and delivery points.
- (d) Interconnection Customers shall provide a 10-year forecast with respect to any planned additions or upgrades, including their status and expected in-service date, planned retirements and environmental restrictions.
- (e) Any Stakeholder may also provide
 - information related to non-wires solutions to offset or defer transmission investments, including targeted demand-side management and energy procurement;
 - any information on potential requirements or opportunities that the Stakeholder believes should be considered in the Planning Process.

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3.4 Use of Customer Planning Information

Subject to confidentiality and security restrictions, any information may be used by the Transmission Provider without restriction in its planning activities under this Attachment K and in the Transmission Provider's other planning activities or studies, such as studies in response to requests for transmission service or interconnection. However, if the Transmission Provider reasonably determines that any information provided under this Attachment K is inappropriate or unreasonable for a particular purpose, the Transmission Provider may not use it for such purpose.

The good faith projections of anticipated point-to-point uses of the transmission system or forecasted generation additions or upgrades provided by customers are additional data for consideration by the Transmission Provider in its planning activities. The Transmission Provider may consider such projections, for example, to support likely scenarios for new investments. The projections, however, will not be treated as a substitute for actual point-to-point reservations or interconnection requests.

3.5 Confidentiality

If a Stakeholder wishes to submit confidential information, the Stakeholder may provide the information in accordance with section 9, provided that the Transmission Provider may use the information for planning purposes and present the information to the public on an aggregated basis or by any other method which the Transmission Provider reasonably believes will not compromise the confidentiality requirements of the Stakeholder.

3.6 Availability of Planning Information

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Subject to the need to protect confidential information or security sensitive information, the Transmission Provider will post on an ongoing basis the following on its Planning Web Page:

- (a) the Transmission Provider's Planning Manual;
- (b) the data used by the Transmission Provider in its planning and study work, including base case data,
- (c) potential requirements and opportunities;
- (c) the Transmission Provider's latest Capital Plan, including current reports regarding the state of the Transmission System;
- (d) the status of Network Upgrades for Projects in progress;
- Transmission Service and Interconnection Service requests pursuant to the Tariff and any studies and agreements related to such requests;
- (f) information on regional planning activities, as described in Section 11;
- (g) information received from customers throughout the course of the Planning Process; and,
- (h) planning information developed in the course of the Planning Process, including draft and final study and transmission plans, minutes of meetings and customer comments.

Subject to the need to protect confidential information or security sensitive information, the Transmission Provider will also post the following information as it becomes available:

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- (a) information regarding existing transmission constraints;
- (b) generation redispatch options that can relieve transmission constraints in the Transmission Provider's Balancing Authority Area; and,
- (c) other information the Transmission Provider considers relevant to the Planning Process, including information received from policy advisory groups, regional stakeholder meetings, regional planning groups, the First Nation's Engagement Process, and local and regional studies.

Planning information that is confidential or security sensitive will be described on the Transmission Provider's public website and made available to participating Stakeholders in accordance with Section 9.

4 Study Plan Development Phase

4.1 Draft Study Plan

Based on the planning information submitted to the Transmission Provider or made available by the Transmission Provider in accordance with Section 3, the Transmission Provider will prepare and post on the Planning Web Page a draft study plan. The Draft Study Plan will include:

- (a) potential requirements and opportunities;
- (b) study data and planning assumptions;
- (c) a list of approved projects in progress and their status;
- (d) a list of proposed studies for meeting the potential requirements and opportunities, including list of studies required for meeting interconnection and transmission

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service requests, including a description of the scope and deliverables for each study;

- (e) a review of the possible opportunities for combining the studies described in 4.1(d);
- (f) a review of potential non-wires solutions to the potential requirements and opportunities; and,
- (g) if there are more Economic Planning Study requests than the Transmission Provider is able to undertake, suggested criteria for selecting Economic Planning Studies to be performed, such as whether the requested Economic Planning Studies: (a) address significant and recurring congestion; (b) integrate new generation resources or load or both on an aggregated or regional basis; or (c) reduce the overall cost of transmission.

4.2 Consultation Meeting

The Transmission Provider will schedule a Consultation Meeting after the posting of the draft study plan. In the Consultation Meeting, the Transmission Provider will

- (a) provide a high level review of the Transmission Provider's study methodology, data and planning assumptions,
- (b) review the proposed list of studies;
- (c) discuss and determine which, if any, requested Economic Planning Studies can be combined;

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- (d) if necessary, determine with Stakeholders which Economic Planning Studies will be undertaken, including determining selection criteria, the weight to be given to the criteria and the ranking of studies according the criteria;
- (e) review the Transmission Provider's coordination with WECC and any bilateral or multilateral initiatives in which the Transmission Provider is participating with neighbouring transmission providers, utilities or sub-regional planning groups, including any opportunities for Stakeholders to be involved in such activities;
- (f) establish Technical Review Groups for specific projects based on stakeholder interest and schedule initial meetings to review the Terms of Reference (see Appendix A) and to develop a meeting schedule; and,
- (g) establish a comment period for Stakeholders to provide written comments.

4.3 Posting of Minutes and Materials

As soon as practicable, the Transmission Provider will post on the its public website minutes of the Consultation Meeting along with any materials distributed at the Consultation Meeting, subject to the need to protect confidential or security-sensitive information.

4.4 Written Comments

Stakeholders may provide written comments on the draft study plan to the Point of Contact within the comment period. Stakeholder comments on the draft study plan will be posted on the Planning Web Page.

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4.5 Final Study Plan

Taking into account the written comments of Stakeholders, the Transmission Provider will develop and post on the its public website a final study plan. The final study plan will include:

- (a) a written description of potential requirements and opportunities;
- (b) study data and planning assumptions;
- (c) a list of studies designed to meet the potential requirements and opportunities, including a description of the scope and deliverables for each study;
- (d) a list of the Economic Planning Studies selected to be performed by the Transmission Provider;
- (d) a schedule for the completion of each identified task;
- (e) a schedule of Technical Review Group meetings;
- (f) a list of studies that involve multiple Balancing Authority Areas; and,
- (g) for studies that involve multiple Balancing Authority Areas, a description of the Transmission Provider's coordination with the relevant regional planning groups and periodic progress updates to affected Transmission Customers.

4.6 Amendments to the Study Plan

During the Study Plan Development Phase or Study Phase, the Transmission Provider may propose amendments to the study plan by notifying Stakeholders and posting on the Transmission Provider's public website a notice of the proposed amendment along

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with an explanation of the reason for the amendment and specify a period for Stakeholders' comments. Stakeholders may provide written comments on the draft study plan to the Point of Contact. The Transmission Provider will take into account written comments before formally amending the study plan. The amended study plan will be posted on the Transmission Provider's public website along with the written comments.

5. Study Phase

5.1 Performance of Studies

- (a) Following the posting of the final study plan, the Transmission Provider will perform the studies identified in the study plan in order to develop a preliminary set of Projects that will meet the potential requirements or opportunities identified.
- (b) Following the posting of the final study plan, the Transmission Provider conduct the selected Economic Planning Studies, except for those of regional scope.
- (c) In accordance with WECC's Transmission Planning Protocol, the Transmission Provider will submit Economic Planning Studies to WECC during its study request window. Economic Planning Studies of regional scope will be prioritized and completed as part of a Western Interconnection synchronized study cycle in accordance with the Transmission Planning Protocol, which is open to interested parties. Economic Planning Studies of regional scope which are not given high priority in the process will be deferred, although the requesting party may request that the study be completed at its own cost. The Transmission Provider will conduct and participate in regional studies in accordance with the Transmission Expansion Protocol. Information on the Transmission Planning Protocol will be provided to Stakeholders in accordance with Section 11.

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- (d) The Transmission Provider may request proponents of selected Economic Planning Studies and other Stakeholders to supply information within their possession or control necessary for the Transmission Provider to the conduct the selected Economic Planning Studies. Such information may include cost information for transmission and generation facilities. The information provided will be considered not to be confidential unless it is claimed as such. Confidential information may be provided under protection of a confidentiality agreement in accordance with Section 9 of this Attachment. The Transmission Provider will have no obligation to proceed with an Economic Planning Study if the Transmission Provider does not receive the information reasonably necessary to conduct the Economic Planning Study.
- (e) In conducting studies, the Transmission Provider will consider customer demand and generation based non-wires solutions on a comparable basis to transmission alternatives. the Transmission Provider will develop planning criteria, which will be included in the Transmission Provider's Planning Manual, describing how transmission and non-wires solutions will be considered on a comparable basis in the study process.

5.2 Technical Review Groups

The Transmission Provider will engage the Technical Review Groups formed in the Study Plan Development Phase in accordance with their Terms of Reference and schedule.

5.3 Preliminary Set of Projects

After the completion of the studies pursuant to Subsection 5.1, the Transmission Provider will post the following on the its public website:

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- (a) study results; and,
- (b) a preliminary set of Projects.

5.4 Consultation Meeting

The Transmission Provider will schedule a Consultation Meeting after the preliminary set of Projects is posted. At the Consultation Meeting the Transmission Provider will:

- (a) review the preliminary set of Projects for inclusion in the Transmission Plan;
- (b) review the results of studies that support the development of the preliminary set of Projects;
- (c) review the results of Economic Planning Studies; and,
- (d) establish a comment period for Stakeholders to provide written comments.

5.5 **Posting of Minutes and Materials**

As soon as practicable, the Transmission Provider will post on the its public website minutes of the Consultation Meeting along with any materials distributed at the Consultation Meeting, subject to the need to protect confidentiality or security sensitive information.

5.6 Written Comments

Stakeholders may submit written comments within the comment period to the Point of Contact. The Transmission Provider will post on the its public website comments received from Stakeholders.

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6. Transmission Plan Development Phase

6.1 Draft Transmission Plan

Taking into account the written comments of Stakeholders, the Transmission Provider will develop and post on the its public website, a draft Transmission Plan. The draft Transmission Plan which describes the Transmission Provider's growth capital portfolio with a 10 year planning horizon will include the following:

- (a) Projects that meet the need identified in the study plan;
- (b) Projects that are in progress;
- Projects that meet the requirements of transmission and interconnection service requests;
- Projects that have been developed sufficiently for the Transmission Provider to seek approval from its Board of Directors; and,
- (e) Projects for which no approval will be sought in the current planning cycle.

The Transmission Provider will also specify a comment period.

6.2 Written Comments

Stakeholders may submit written comments on the draft Transmission Plan to the Point of Contact within the comment period. The Transmission Provider will post comments received from Stakeholders on the Transmission Provider's public website.

6.3 Final Transmission Plan

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Taking the comments from Stakeholders into consideration as necessary, the Transmission Provider will develop a final Transmission Plan.

7. Inquiries

At any time, Stakeholders may direct inquiries related to the Planning Process to the Point of Contact, who will be identified on the Transmission Provider's public website.

8. Dispute Resolution Process

Stakeholders are encouraged to bring to the attention of the Point of Contact any issues that they may have arising out of the Planning Process. Stakeholders may also file a complaint with the Commission with respect to any such issue.

9. Confidentiality

In the event that a Stakeholder or the Transmission Provider claims that planning-related information is confidential, any party seeking access to such information must agree to adhere to the terms of a confidentiality agreement. The form of confidentiality agreement will be initially developed by the Transmission Provider and will be posted on its Planning Website. Stakeholders will have an opportunity to submit comments on the form of confidentiality agreement. Confidential information shall be disclosed only to those participants in the planning process that require such information and that execute the confidentiality agreement. The Transmission Provider will develop procedures for the submission and requesting of confidential information and make such procedures available for comment on its public website.

10. Standards of Conduct

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The Transmission Provider's conduct under this Attachment is subject to the Transmission Provider's Standards of Conduct.

11. Regional Planning

The Transmission Provider will coordinate with interconnected systems through its participation in WECC and through direct engagement of neighbouring systems. As a system in the corner of the WECC interconnected system, the Transmission Provider has not found it necessary to join any subregional planning groups, although the Transmission Provider will coordinate with such subregional planning groups through WECC and as otherwise may be necessary.

11.1 WECC

As a member of WECC, the Transmission Provider will follow and participate in WECC's policies and procedures for Regional Planning Project Review, Project Rating Review, and Progress Reports. The Transmission Provider will also participate in the Transmission Planning Protocol of WECC's Transmission Expansion Planning Policy Committee. The Transmission Provider will post current links to WECC's procedures and guidelines on its public website as well as information detailing the Transmission Provider's participation in WECC's regional planning processes.

11.2 Other Regional Planning Activities

In addition to its participation in WECC processes, the Transmission Provider may engage neighbouring systems or sub-regional planning groups for the purpose of regional transmission planning and investment. As part of these regional planning activities, the Transmission Provider will seek opportunities to improve the overall efficiency and economic savings from increased inter-regional cooperation and

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integration. Once opportunities are identified, the Transmission Provider will seek to facilitate the required studies and implementation through working groups consisting of representatives from the Transmission Provider and other participating entities. The Transmission Provider will post on its public website information on such activities including notice of meetings, relevant materials and information on how interested parties may participate.

11.3 Customer Participation

The Transmission Provider will provide on its public website information on how Stakeholders may participate in any of the Transmission Provider's regional planning activities, which may involve attending meetings, conference calls or submitting comments on particular projects. Stakeholders who are interested in any regional planning activities are encouraged to contact the Transmission Provider's Point of Contact so that the Transmission Provider may facilitate such participation. As described in Section 4, the Transmission Provider will also include a description of its regional planning activities in the Draft Study Plan, which customers may comment on and discuss with the Transmission Provider at the Consultation Meeting held for that purpose.

12. Cost Allocation

- 12.1 The Transmission Provider will recover the costs of projects required for meeting service requests and system improvements in accordance with the provisions in the Transmission Provider's Tariff.
- 12.2 The Transmission Provider is not obliged to expand the system based on the results of Economic Planning Studies. Where the Transmission Provider decides to construct facilities based on the results of one or more Economic Planning Studies, it will do so in

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accordance with a transmission expansion or congestion policy developed by the Transmission Provider, subject to Commission approval. In these cases, the Transmission Provider will apply the cost allocation principles of the applicable transmission expansion or congestion policy under which the project is developed, subject to Commission approval.

13. No Participant Funding

Stakeholders may participate in the Planning Process at their own cost.

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Appendix 1 to Attachment K

Terms of Reference for Technical Review Groups

Technical Review Groups formed in accordance with Attachment K are to be conducted in accordance with these Terms of Reference.

1. Definitions

- (a) "Interested Person" means any transmission or interconnection customer or any other person directly impacted by the subject matter of a particular TRG and wishes to participate in the particular TRG;
- (b) "Tariff" means the Transmission Provider's Open Access Transmission Tariff as may be amended from time to time by the British Columbia Utilities Commission; and
- (c.) "TRG" means a Technical Review Group formed pursuant to Attachment K of the Tariff.

2. Purpose

The TRG will provide an open, transparent forum whereby Interested Persons can review and provide feedback to the Transmission Provider in respect of planning alternatives for a transmission system requirement or opportunity identified by the Transmission Provider, which, in turn, provides a forum for the Transmission Provider to better understand the specific concerns of Interested Persons regarding planning alternatives to meet an identified transmission system requirement or opportunity.

3. Establishment

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A TRG shall be established by the Transmission Provider in accordance with Attachment K of the Tariff. The TRG shall consist of at least one representative from the Transmission Provider, who shall be the facilitator, and representatives of at least two different Interested Persons.

Participation in a TRG is entirely voluntary and done so at each Interested Person's own cost and expense.

4. Role of TRG

The TRG may, with the benefit of results of any study determined to be relevant by the Transmission Provider, comment and provide feedback on planning alternatives to meet a transmission system requirement or opportunity identified by the Transmission Provider.

The TRG shall be advisory only and shall have no formal voting protocol.

5. Meetings

5.1 General

All meetings of a TRG will be open to all Interested Persons, subject to their agreement to comply with procedures to protect confidential or proprietary information as may be required by the Transmission Provider.

Meetings will be conducted to (i) provide an opportunity for the Transmission Provider to increase its understanding of Interested Persons' perspectives with respect to planning alternatives; (ii) offer Interested Persons an opportunity to be informed about transmission system requirements or opportunities identified by the Transmission

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Provider; (iii) review results of studies determined to be relevant by the Transmission Provider; and (iv) provide feedback with respect to planning alternatives.

5.2 Format

In accordance with the terms of Attachment K, the Transmission Provider will post on the Planning Web Page the description of that identified requirement or opportunity and a brief review of the planning alternatives. An initial TRG meeting will be scheduled to, among other things, establish need for confidentiality, discuss views generally in relation to the planning alternatives and to submit written submissions, if desired. The Transmission Provider will then take away the input received from the Interested Persons and prepare a draft planning alternative informed by such input. The draft planning alternative will then be posted on The Planning Web Page for further review and comment by the Interested Persons within a specified period of time.

Although the TRG process is described sequentially, the actual activities may be performed on a flexible, iterative and non-sequential basis, depending on the needs and wishes of the Transmission Provider informed by input from the particular TRG.

5.3 Administrative Matters

Meeting notices, including date, time, location and meeting agenda will be posted on the Transmission Provider's Planning Web Page. The agendas will identify the subject matter of the particular meeting, be posted on the Planning Web Page and be circulated to its distribution list in advance of the meetings to assist Interested Persons to choose their meeting attendance efficiently. A subscription page will be set up that allows Interested Persons to sign-up for email distribution.

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The meetings will be informal and will be facilitated by a representative from the Transmission Provider, who will be responsible for guiding discussion, identifying issues to be covered, establishing governing rules as necessary and collecting appropriate information to inform the draft planning alternative.

Interested Persons are encouraged to provide, in a timely manner, input, comments, advice and questions into the process electronically by sending an email to the Transmission Provider's designated point of contact.

Where no confidentiality concerns have been raised and determined by the Transmission Provider to require any further action, the Transmission Provider will post all meeting-related notes, documents and draft or final planning alternatives on the Planning Web Page.

6. Draft Planning Alternative

While the Transmission Provider will be informed in its transmission planning by comments, input, feedback or recommendations from the TRG, any such comments, input, feedback or recommendations shall not be binding upon the Transmission Provider in any manner. In the event that a TRG is unable to reach a consensus on the attributes of a draft planning alternative, it shall be of no consequence to the Transmission Provider in its final determination of a planning alternative.

7. Standards of Conduct

Every TRG and all of its respective processes and procedures are subject to the Transmission Provider's Standards of Conduct.

8. Confidentiality

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The Transmission Provider may, as a condition to participation, require Interested Persons to sign a non-disclosure agreement with respect to information gathered, exchanged or disclosed during the TRG process. Notwithstanding the foregoing, all of the information, input, comments and feedback provided in connection with a TRG will be deemed to be public and not confidential in nature unless otherwise expressly indicated to the Transmission Provider prior to disclosure to the Transmission Provider or TRG.

9. Ownership

Any and all documents, reports, analysis and other works prepared by a TRG shall be and remain the property of the Transmission Provider.

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ATTACHMENT L

<u>–</u>Creditworthiness Provisions

1. Preamble

This Attachment L contains the Transmission Provider's Creditworthiness Provisions and is supplemented by a detailed Credit Administration Procedure (<u>OATT</u> Credit <u>PolicyProcedure</u>), which is published on the Transmission Provider's public website, with a corresponding link to the <u>OATT</u> Credit <u>Policy Procedure</u> provided on the Transmission Provider's OASIS.

2. Credit Review

For the purpose of determining the ability of the Transmission Customer to meet its obligations related to Transmission Service, the Transmission Provider will apply the credit review provisions described in this Attachment L. A credit review shall be conducted for each Transmission Customer not less than annually, or upon reasonable request by the Transmission Customer.

3. Creditworthiness

A Transmission Customer is creditworthy if

 the Transmission Customer has the requisite long-term debt rating from a nationally recognized debt rating agency as indicated in the Transmission Provider's <u>OATT</u>Credit <u>PolicyProcedure</u>;

or

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 (ii) if the Transmission Customer does not have a long-term debt rating, the Transmission Customer has the requisite short-term debt rating from a nationally recognized debt rating agency as indicated in the Transmission Provider's <u>OATT</u> Credit <u>PolicyProcedure</u>.

Where the Transmission Customer has multiple ratings from nationally recognized debt rating agencies, the <u>highest-lowest</u> rating shall determine creditworthiness, provided that there is not more that one sub-level rating classification difference between the highest and lowest credit rating. If the difference exceeds one sub-level rating classification, the lowest rating is used to determine creditworthiness.

4. Creditworthiness Criteria

If the credit exposure is within the maximum credit limit set forth in BCTC'sBC Hydro'sthe OATT Credit PolicyProcedure, a Transmission Customer that meets either requirement described in Section 4(i) or Section 4(ii) shall not be required to provide any form of security against the risk of nonpayment for any type of service , including deposits for studies that otherwise would be required pursuant to Sections 17.3, 19.1, 19.4, 29.2, 32.1 and 32.4 of the Transmission Provider's Open Access Transmission Tariff (the Tariff). A Transmission Customer that meets either requirement described in Section 4(i) or Section 4(ii) shall remain subject to any requirements of the Tariff to provide security related to the cost of new facilities or upgrades, including letters of credit or other forms of security required in accordance with Attachment O.

- (i) The Transmission Customer
 - (a) is creditworthy in accordance with Section 3 of this Attachment L, and
 - (b) is not in default of its payment obligations under Section 7.3 of the Tariff;

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or

- (ii) The Transmission Customer's parent company
 - (a) is creditworthy in accordance with Section 3 of this Attachment L and the parent company provides a written guarantee that the parent company will be unconditionally responsible to the Transmission Provider for all financial obligations associated with the transmission service subscribed to by the Transmission Customer, and
 - (b) is not in default of its payment obligations under Section 7.3 of the Tariff.

5. Requirements for Customers Not Meeting Creditworthiness Criteria:

A Transmission Customer that does not meet the creditworthiness criteria set out in Section 4 above shall comply with one of the following:

(i) Providing Security

The Transmission Customer shall provide security for the lesser of (i) the total charge for service or (ii) the charge for ninety (90) days of service by the later of five (5) Business Days prior to the commencement of service or the time when it makes the request for transmission service. The security will be either an unconditional and irrevocable letter of credit drawn on a financial institutional acceptable to the Transmission Provider or an alternative form of security acceptable to the Transmission Provider and consistent with commercial practices established under the laws of Canada and the Province of British Columbia that protects the Transmission Provider against the risk of non-payment. If the financial institution on which the letter of credit is drawn or the alternative form of security cease to be acceptable to the Transmission Provider, then the Transmission

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Customer shall provide a new form of security that meets the Transmission Provider's requirements, as stated above, within 30 Calendar Days of notice being provided to the Transmission Customer.

or

- (ii) Pre-paying service
 - (a) For service of one month or less, the Transmission Customer shall pay the total charge for service by the later of five (5) Business Days prior to the commencement of service or the time when it makes the request for transmission service.
 - (b) For service of greater than one month, the Transmission Customer shall pay for each month's service not less than five (5) Business Days prior to the beginning of that month. For Network Integration Transmission Service customers, the advance payment for each month shall be based on a reasonable estimate by the Transmission Provider of the charge for that month.

the Transmission Provider will not provide transmission service requested by the Transmission Customer unless one of the conditions described in Section 5(i) and 5(ii) of this Attachment L is met.

6. Changes in Creditworthiness Status

If a Transmission Customer fails to meet the requirements of Section 4 of this Attachment L at any time after transmission service is requested, the Transmission Customer will, within 5 days of notification by the Transmission Provider, either (a) pay in advance for thirty (30) Calendar Days of transmission service or (b) provide an

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unconditional and irrevocable letter of credit or alternative form of security acceptable to the Transmission Provider in an amount equal to the charge for thirty (30) Calendar Days of transmission service. Within thirty (30) Calendar Days of such notification the Transmission Customer shall meet the requirements of Section 5 of this Attachment L.

7. Suspension of Service

The Transmission Provider may suspend service to a Transmission Customer who does not meet the creditworthiness criteria of Section 4 of this Attachment L under the following circumstances:

- (i) If the Transmission Customer qualifies for service pursuant to Section 5 of this Attachment L as a result of providing a letter or credit or alternative form of security, and it does not pay its bill within in accordance with Section 7.1 of the Tariff, and it has not initiated a billing dispute in accordance with Section 7.3 of the Tariff, the Transmission Provider may suspend service thirty (30) Calendar Days after written notice to the Transmission Customer and the Commission that the service will be suspended unless the Transmission Customer pays its bills within this thirty (30) Calendar Day period.
- (ii) If the Transmission Customer qualifies for service as a result of committing to prepay for service pursuant to Section 5(ii) of this Attachment L, and it fails to prepay for service as provided in such section, the Transmission Provider may refuse or suspend service, as applicable, immediately upon written notice to the Transmission Customer and the Commission.
- (iii) If the Transmission Customer loses its creditworthy status as a result of circumstances other than a default of its payment obligations and it fails to meet the credit security requirements of Section 6 of this Attachment L, but it either pays

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its bills within the time period provided in Section 7.1 of the Tariff or initiates a billing dispute in accordance with Section 7.3 of the Tariff, the Transmission Provider may suspend service thirty (30) Calendar Days after written notice to the Transmission Customer and the Commission that the service will be suspended unless the Transmission Customer meets the credit security requirements of Section 5 of this Attachment L.

(iv) If the Transmission Customer loses its creditworthy status because it is in default of its payment obligations under Section 7.3 of the Tariff and it fails to meet the requirements of Section 6 of this Attachment L, the Transmission Provider may suspend service five (5) Business Days after written notice to the Transmission Customer and the Commission that service will be suspended if the Transmission Customer does not meet the requirements of Section 6 of this Attachment L.

The suspension of service shall continue only for as long as the circumstances that entitle the Transmission Provider to suspend service continue. A Transmission Customer is not obligated to pay for Transmission Service that is not provided as a result of a suspension of service.

8. Notice of Change in Creditworthiness Status and Security Requirements

If the Transmission Provider determines that there has been a change in the creditworthiness status or security requirements of a Transmission Customer it will notify the Transmission Customer within 5 Business Days.

9. Written Explanation for any Change in Creditworthiness Status and Security Requirements

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Upon request made in writing by the Transmission Customer to the Transmission Provider, the Transmission Provider will provide to the Transmission Customer a written explanation of any change in the creditworthiness status or security requirements of the Transmission Customer within 5 Business Days.

10. Contesting Determinations of Creditworthiness Status and Security Requirements

If a Transmission Customer disagrees with the Transmission Provider's determination of the Transmission Customer's creditworthiness or credit security requirements, the Transmission Customer may write to the Transmission Provider explaining the nature of the disagreement. The Transmission Provider will consider the comments, review the application of its credit provisions to the Transmission Customer and notify the Transmission Customer of the results of its review within 5 Business Days.

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ATTACHMENT M-1

<u>–</u>Standard Generator Interconnection Procedures (SGIP)

_including

_Standard Generator Interconnection Agreement (SGIA)

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1.0 Definitions

Capitalized terms used but not defined in these SGIP shall have the meanings given to them elsewhere in the Tariff. In these SGIP:

Adverse System Impact shall mean the negative effects due to technical or operational limits on conductors or equipment being exceeded that may compromise the safety and reliability of the electric system.

Affected System shall mean an electric system other than the Transmission Provider's Transmission System that may be affected by the proposed interconnection.

Affected System Operator shall mean the entity that operates an Affected System.

Affiliate shall mean, with respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

Ancillary Services shall mean those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

Applicable Laws and Regulations shall mean all duly promulgated applicable federal, provincial and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority.

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Applicable Reliability Council Coordinator shall mean the reliability council(s) applicable to the Transmission System Reliability Coordinator as defined in the Applicable Reliability Standards and which is currently recognized as WECC.

Applicable Reliability Standards shall mean the requirements and guidelines of NERC, the Applicable Reliability Council reliability standards and guidelines adopted by the Commission in British Columbia, to the extent that those standards and guidelines apply to the Interconnection Customer, and the Control Area of the Transmission System.

Base Case shall mean the base case power flow, short circuit, and stability data bases used for the Interconnection Studies.

Breach shall mean the failure of a Party to perform or observe any material term or condition of the Standard Generator Interconnection Agreement.

Breaching Party shall mean a Party that is in Breach.

Business Day shall mean Monday through Friday, excluding Holidays.

Calendar Day shall mean any day including Saturday, Sunday or a Holiday.

Clustering shall mean the process whereby a group of Interconnection Requests is studied together, instead of serially, for purposes of Interconnection System Impact Studies and Interconnection Facilities Studies.

Combined Study Agreement shall mean the form of agreement contained in Appendix 3 of the SGIP.

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Commercial Operation shall mean the status of a Generating Facility that has commenced generating electricity for sale, excluding electricity generated during Trial Operation.

Commercial Operation Date of a unit shall mean the date on which the Generating Facility commences Commercial Operation as agreed to by the Parties pursuant to Appendix D to the Standard Generator Interconnection Agreement.

Commission means the British Columbia Utilities Commission, or its successor.

Confidential Information shall mean any confidential, proprietary or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy or compilation relating to the present or planned business of a Party, which is designated as confidential by the Party supplying the information, whether conveyed orally, electronically, in writing, through inspection, or otherwise.

Control Area shall mean an electrical system or systems bounded by interconnection metering and telemetry, capable of controlling generation to maintain its interchange schedule with other Control Areas and contributing to frequency regulation of the interconnection. A Control Area must be certified by the Applicable Reliability Council The Control Area is the Balancing Authority Area as defined in the Applicable Reliability Reliability Standards.

Default shall mean the failure of a Breaching Party to cure its Breach in accordance with Article 17 of the Standard Generator Interconnection Agreement.

Dispute Resolution shall mean the procedure for resolution of a dispute between the Parties as set out in Appendix G to the SGIA.

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Emergency Condition shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life, or property; or (2) that, in the case of a Transmission Provider, is imminently likely (as determined in a non discriminatory manner) to cause a material adverse effect on the security of, or damage to Transmission Provider's Transmission System, Transmission Provider's Interconnection Facilities or the electric systems of others to which the Transmission Provider's Transmission System is directly connected; or (3) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided that Interconnection Customer is not obligated by the Standard Generator Interconnection Agreement to possess black start capability.

Energy Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to connect its Generating Facility to the Transmission Provider's Transmission System to be eligible to deliver the Generating Facility's electric output using the existing firm or non-firm capacity of the Transmission Provider's Transmission System on an as available basis. Energy Resource Interconnection Service in and of itself does not convey transmission service.

Engineering & Procurement (E&P) Agreement shall mean an agreement that authorizes the Transmission Provider to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection in order to advance the implementation of the Interconnection Request.

Environmental Law shall mean Applicable Laws or Regulations relating to pollution or protection of the environment or natural resources.

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Force Majeure shall mean any act of God, labour disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include acts of negligence or intentional wrongdoing by the Party claiming Force Majeure.

Generating Facility shall mean Interconnection Customer's device for the production of electricity identified in the Interconnection Request, but shall not include Interconnection Customer's Interconnection Facilities.

Generating Facility Capacity shall mean the net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple energy production devices.

Good Utility Practice shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region, including any reliability standards adopted by the Commission pursuant to section 125.2 of the British Columbia Utilities Commission Act.

Governmental Authority shall mean any federal, provincial, local or other governmental regulatory or administrative agency, court, commission, department, board, or other

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governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include Interconnection Customer, Transmission Provider, or any Affiliate thereof.

Hazardous Substances shall mean any chemicals, materials or substances defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "hazardous constituents," "restricted hazardous materials," "extremely hazardous substances," "toxic substances," "radioactive substances," "contaminants," "pollutants," "toxic pollutants" or words of similar meaning and regulatory effect under any applicable Environmental Law, or any other chemical, material or substance, exposure to which is prohibited, limited or regulated by any applicable Environmental Law.

Holiday shall mean a statutory holiday in British Columbia.

Initial Synchronization Date shall mean the date upon which the Generating Facility is initially synchronized and upon which Trial Operation begins.

In-Service Date shall mean the date upon which the Interconnection Customer reasonably expects it will be ready to begin use of the Transmission Provider's Interconnection Facilities to obtain back feed power.

Interconnection Customer shall mean any entity, including Transmission Provider or any of the Affiliates or subsidiaries, that proposes to interconnect its Generating Facility with the Transmission Provider's Transmission System.

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Interconnection Customer's Interconnection Facilities shall mean all facilities and equipment, as identified in Appendix A of the Standard Generator Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Customer's Interconnection Facilities are sole use facilities.

Interconnection Facilities shall mean the Transmission Provider's Interconnection Facilities and the Interconnection Customer's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

Interconnection Facilities Study shall mean a study conducted by the Transmission Provider or, at the option of the Transmission Provider, by a third party consultant for the Interconnection Customer to determine a list of facilities (including Transmission Provider's Interconnection Facilities and Network Upgrades, as identified in the Interconnection System Impact Study), the cost of those facilities, and the time required to interconnect the Generating Facility with the Transmission Provider's Transmission System. The scope of the study is defined in Section 8.3 of the Standard Generation Interconnection Procedures.

Interconnection Feasibility Study shall mean a preliminary evaluation of the system impact and cost of interconnecting the Generating Facility to the Transmission Provider's

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Transmission System, the scope of which is described in Section 6 of the Standard Generator Interconnection Procedures.

Interconnection Feasibility Study Agreement shall mean the form of agreement contained in Appendix 2 of the Standard Generator Interconnection Procedures for conducting the Interconnection Feasibility Study.

Interconnection Request shall mean an Interconnection Customer's request, in the form of Appendix 1 including Attachments to the Standard Generator Interconnection Procedures, in accordance with the Tariff, to interconnect a new Generating Facility, or to increase the capacity of, or make a Material Modification to the operating characteristics of, an existing Generating Facility that is interconnected with the Transmission Provider's Transmission System.

Interconnection Service shall mean the service provided by the Transmission Provider associated with interconnecting the Interconnection Customer's Generating Facility to the Transmission Provider's Transmission System and enabling it to receive electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of the Standard Generator Interconnection Agreement and, if applicable, the Transmission Provider's Tariff.

Interconnection Study shall mean any of the following studies: the Interconnection Feasibility Study, the Interconnection System Impact Study, and the Interconnection Facilities Study described in the Standard Generator Interconnection Procedures.

Interconnection System Impact Study shall mean an engineering study that evaluates the impact of the proposed interconnection on the safety and reliability of Transmission Provider's Transmission System and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility were

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interconnected without project modifications or system modifications, focusing on the Adverse System Impacts identified in the Interconnection Feasibility Study, or to study potential impacts, including but not limited to those identified in the Scoping Meeting as described in the Standard Generator Interconnection Procedures.

Interest means interest calculated <u>atas defined in</u> the <u>average prime rate of</u> Transmission Provider's <u>lead bankBusiness Practices</u> for the applicable period, and shall be calculated from the day a deposit or payment is credited to the Transmission Provider's account.

Joint Operating Committee shall be a group made up of representatives from Interconnection Customers and the Transmission Provider to coordinate operating and technical considerations of Interconnection Service.

Material Modification shall mean those modifications that have a material impact on the cost or timing of any Interconnection Request with a later queue priority date or that would affect the reliability or stability of the Transmission System.

Metering Equipment shall mean all metering equipment installed or to be installed pursuant to the Standard Generator Interconnection Agreement, including but not limited to instrument transformers, MWh-meters, data acquisition equipment, transducers, remote terminal unit, communications equipment, phone lines, and fiber optics.

NERC shall mean the North American Electric Reliability Council or its successor organization.

Network Resource shall have the meaning provided in the Tariff.

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Network Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to integrate its Generating Facility with the Transmission Provider's Transmission System in the same manner as Network Resources. Network Resource Interconnection Service in and of itself does not convey transmission service.

Network Upgrades shall mean the additions, modifications, and upgrades to the Transmission Provider's Transmission System required at or beyond the Point of Interconnection to accommodate the interconnection of the Generating Facility to the Transmission Provider's Transmission System.

Operating Region means any one of the following of Transmission Provider's planning regions: Metro Vancouver, Fraser Valley, Vancouver Island, Northern Interior and Southern Interior, and **Operating Regions** means all of them.

Optional Interconnection Study shall mean a sensitivity analysis based on assumptions specified by the Interconnection Customer in the Optional Interconnection Study Agreement.

Optional Interconnection Study Agreement shall mean the form of agreement contained in Appendix 4 of the Standard Generator Interconnection Procedures for conducting the Optional Interconnection Study.

Party shall mean Transmission Provider or Interconnection Customer and **Parties** shall mean both of them.

Point of Change of Ownership shall mean the point, as set forth in Appendix A to the Standard Generator Interconnection Agreement, where the Interconnection Customer's

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Interconnection Facilities connect to the Transmission Provider's Interconnection Facilities.

Point of Interconnection shall mean the point where the Interconnection Facilities are to connect to the Transmission Provider's Transmission System, as determined pursuant to the SGIP.

Queue Position shall mean, subject to Attachment M-2, the order of a valid Interconnection Request, relative to all other pending valid Interconnection Requests, that is established based upon the date and time of receipt of the valid Interconnection Request by the Transmission Provider.

Reasonable Efforts shall mean, with respect to an action required to be attempted or taken by a Party under the Standard Generator Interconnection Agreement, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

Reliability Management System (RMS) shall mean WECC's reliability criteria, agreements, data collection requirements and terms and conditions set forth in WECC's reliability compliance programs and agreements as in effect from time to time. Appendix F to the SGIA is the RMS Agreement required by WECC.

Scoping Meeting shall mean the meeting between representatives of the Interconnection Customer and Transmission Provider conducted for the purpose of discussing alternative interconnection options, to exchange information including any transmission data and earlier study evaluations that would be reasonably expected to impact such interconnection options, to analyze such information, and to determine the potential feasible Points of Interconnection.

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Site Control shall mean documentation reasonably demonstrating: (1) ownership of, a leasehold interest in, or a right to develop a site for the purpose of constructing the Generating Facility; (2) an option to purchase or acquire a leasehold site for such purpose; or (3) an exclusivity or other business relationship between Interconnection Customer and the entity having the right to sell, lease or grant Interconnection Customer the right to possess or occupy a site for such purpose.

Stand Alone Network Upgrades shall mean Network Upgrades that an Interconnection Customer may construct without affecting day-to-day operations of the Transmission System during their construction. Both the Transmission Provider and the Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify them in Appendix A to the Standard Generator Interconnection Agreement.

Standard Generator Interconnection Agreement (SGIA) shall mean the form of interconnection agreement applicable to an Interconnection Request pertaining to a Generating Facility, that is included in the Transmission Provider's Tariff.

Standard Generator Interconnection Procedures (SGIP) shall mean the interconnection procedures applicable to an Interconnection Request pertaining to a Generating Facility that are included in the Transmission Provider's Tariff.

System Protection Facilities shall mean the equipment, including necessary protection signal communications equipment, required to protect (1) the Transmission Provider's Transmission System from faults or other electrical disturbances occurring at the Generating Facility and (2) the Generating Facility from faults or other electrical system disturbances occurring on the Transmission Provider's Transmission System or on other

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delivery systems or other generating systems to which the Transmission Provider's Transmission System is directly connected.

Tariff shall mean the Transmission Provider's tariff through which open access transmission service and Interconnection Service are offered, as filed with the Commission, and as amended or supplemented from time to time, or any successor tariff.

Transmission Provider shall mean British Columbia Transmission Corporation BC Hydro.

Transmission Provider's Interconnection Facilities (TPIF) shall mean all facilities and equipment owned, controlled, or operated by the Transmission Provider from the Point of Change of Ownership to the Point of Interconnection as identified in Appendix A to the Standard Generator Interconnection Agreement, including any modifications, additions or upgrades to such facilities and equipment. Transmission Provider's Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

Transmission System shall mean the facilities owned, controlled or operated by the Transmission Provider that are used to provide transmission service under the Tariff.

Trial Operation shall mean the period during which Interconnection Customer is engaged in on-site test operations and commissioning of the Generating Facility prior to Commercial Operation.

WECC shall mean Western Electricity Coordinating Council, or any successor organization.

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2.0 Scope and Application

2.1 Application of Standard Generator Interconnection Procedures

Sections 2 through 13 apply to processing an Interconnection Request.

2.2 Comparability

Transmission Provider shall receive, process and analyze all Interconnection Requests in a timely manner as set forth in this SGIP. Transmission Provider will use the same Reasonable Efforts in processing and analyzing Interconnection Requests from all Interconnection Customers, whether the Generating Facilities are owned by Transmission Provider, its subsidiaries or Affiliates or others.

2.3 Base Case Data

Transmission Provider shall provide base power flow, short circuit and stability databases, including all underlying assumptions, and contingency list upon request subject to confidentiality provisions in SGIP Section 13.1. Transmission Provider is permitted to require that Interconnection Customer sign a confidentiality agreement before the release of commercially sensitive information in the Base Case data. Such databases and lists, hereinafter referred to as Base Cases, shall include all (1) generation projects and (ii) transmission projects, including merchant transmission projects that are proposed for the Transmission System for which a transmission expansion plan has been submitted and approved by the Commission.

2.4 No Applicability to Transmission Service

Nothing in this SGIP shall constitute a request for transmission service or confer upon an Interconnection Customer any right to receive transmission service.

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3.0 Interconnection Requests

3.1 General

An Interconnection Customer shall submit to Transmission Provider an Interconnection Request in the form of Appendix 1 including Attachments to this SGIP. Interconnection Customer shall submit a separate Interconnection Request for each site and may submit multiple Interconnection Requests for a single site. Interconnection Customer must submit a deposit with each Interconnection Request even when more than one request is submitted for a single site. An Interconnection Request to evaluate one site at two different voltage levels shall be treated as two Interconnection Requests.

At Interconnection Customer's option, Transmission Provider and Interconnection Customer will identify alternative Point(s) of Interconnection and configurations at the Scoping Meeting to evaluate in this process and attempt to eliminate alternatives in a reasonable fashion given resources and information available. Interconnection Customer will select the definitive Point(s) of Interconnection to be studied no later than the execution of the Interconnection Feasibility Study Agreement.

3.2 Identification of Types of Interconnection Services

At the time the Interconnection Request is submitted, Interconnection Customer must request either Energy Resource Interconnection Service or Network Resource Interconnection Service, as described; provided, however, any Interconnection Customer requesting Network Resource Interconnection Service may, at any time before or concurrent with the delivery of notice to proceed with an Interconnection Facilities Study pursuant to Section 8.2, also request that it be concurrently studied for Energy Resource Interconnection Customer may then elect to proceed

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with Network Resource Interconnection Service or to proceed under a lower level of interconnection service to the extent that only certain upgrades will be completed.

3.2.1 Energy Resource Interconnection Service

3.2.1.1 The Product

Energy Resource Interconnection Service allows Interconnection Customer to connect the Generating Facility to the Transmission System and be eligible to deliver the Generating Facility's output using the existing firm or non-firm capacity of the Transmission System on an "as available" basis. Energy Resource Interconnection Service does not in and of itself convey any right to deliver electricity to any specific customer or Point of Delivery.

3.2.1.2 The Study

The study consists of short circuit/fault duty, steady state (thermal and voltage) and stability analyses. The short circuit/fault duty analysis would identify direct Interconnection Facilities required and the Network Upgrades necessary to address short circuit issues associated with the Interconnection Facilities. The stability and steady state studies would identify necessary upgrades to allow full output of the proposed Generating Facility and would also identify the maximum allowed output, at the time the study is performed, of the interconnecting Generating Facility without requiring additional Network Upgrades.

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3.2.2 Network Resource Interconnection Service

3.2.2.1 The Product

Transmission Provider must conduct the necessary studies and construct the Network Upgrades needed to integrate the Generating Facility in the same manner as Network Resources. Network Resource Interconnection Service allows Interconnection Customer's Generating Facility to be designated as a Network Resource, up to the Generating Facility's full output, on the same basis as existing Network Resources interconnected to Transmission Provider's Transmission System, and to be studied as a Network Resource on the assumption that such a designation will occur.

3.2.2.2 The Study

The Interconnection Study for Network Resource Interconnection Service shall assure that Interconnection Customer's Generating Facility meets the requirements for Network Resource Interconnection Service and as a general matter, that such Generating Facility's interconnection is also studied with Transmission Provider's Transmission System at peak load, under a variety of severely stressed conditions, to determine whether, with the Generating Facility at full output, the aggregate of generation in the local area can be delivered to the aggregate of load on Transmission Provider's Transmission System, consistent with Transmission Provider's reliability criteria and procedures. This approach assumes that some portion of existing Network Resources is displaced by the output of Interconnection Customer's Generating Facility. Network Resource Interconnection Service in and of itself does not convey any right to deliver electricity to any specific customer or Point of Delivery.

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3.3 Valid Interconnection Request

3.3.1 Initiating an Interconnection Request

Subject to Attachment M-2, to initiate an Interconnection Request, Interconnection Customer must submit all of the following: (i) an initial non-refundable \$15,000 deposit, and (ii) a completed application in the form of Appendix 1 including Attachments. Such deposits shall be applied toward any Interconnection Studies pursuant to the Interconnection Request. If an Interconnection Customer demonstrates Site Control within fifteen (15) Business Days of submitting its Interconnection Request, the deposit shall become refundable.

The expected In-Service Date of the new Generating Facility or increase in capacity of the existing Generating Facility shall be no more than the process window for the regional expansion planning period (or in the absence of a regional planning process, the process window for Transmission Provider's expansion planning period) not to exceed seven years from the date the Interconnection Request is received by Transmission Provider, unless Interconnection Customer demonstrates that engineering, permitting and construction of the new Generating Facility or increase in capacity of the existing Generating Facility will take longer than the regional expansion planning period. The In-Service Date may succeed the date the Interconnection Request is received by Transmission Provider by a period up to ten years, or longer where Interconnection Customer and Transmission Provider agree, such agreement not to be unreasonably withheld.

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3.3.2 Acknowledgment of Interconnection Request

Subject to Attachment M-2, Transmission Provider shall acknowledge receipt of the Interconnection Request within five (5) Business Days of receipt of the request and attach a copy of the received Interconnection Request to the acknowledgement.

3.3.3 Deficiencies in Interconnection Request

Subject to Attachment M-2, an Interconnection Request will not be considered to be a valid request until all items in Section 3.3.1 have been received by Transmission Provider. If an Interconnection Request fails to meet the requirements set forth in Section 3.3.1, Transmission Provider shall notify Interconnection Customer within five (5) Business Days of receipt of the initial Interconnection Request of the reasons for such failure and that the Interconnection Request does not constitute a valid request. Interconnection Customer shall provide Transmission Provider the additional requested information needed to constitute a valid request within ten (10) Business Days after receipt of such notice. Failure by Interconnection Customer to comply with this Section 3.3.3 shall be treated in accordance with Section 3.6.

3.3.4 Scoping Meeting

Within ten (10) Business Days after receipt of a valid Interconnection Request, Transmission Provider shall establish a date agreeable to Interconnection Customer for the Scoping Meeting, and such date shall be no later than thirty (30) Calendar Days from receipt of the valid Interconnection Request, unless otherwise mutually agreed upon by the Parties.

The purpose of the Scoping Meeting shall be to discuss alternative interconnection options, to exchange information including any transmission data that would reasonably

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be expected to impact such interconnection options, to analyze such information and to determine the potential feasible Points of Interconnection. Transmission Provider and Interconnection Customer will bring to the meeting such technical data, including, but not limited to: (i) general facility loadings, (ii) general instability issues, (iii) general short circuit issues, (iv) general voltage issues, and (v) general reliability issues as may be reasonably required to accomplish the purpose of the meeting. Transmission Provider and Interconnection Customer will also bring to the meeting personnel and other resources as may be reasonably required to accomplish the purpose of the meeting. Interconnection Customer will also bring to the meeting, Interconnection Customer shall designate its Point of Interconnection, pursuant to Section 6.1, and one or more available alternative Point(s) of Interconnection. The duration of the meeting shall be sufficient to accomplish its purpose.

Notwithstanding Section 4.4, the Transmission Customer may modify the Point(s) of Interconnection designated in its Interconnection Request on or before the return of the executed Interconnection Feasibility Study Agreement to the Transmission Provider.

This section is subject to Attachment M-2.

3.4 OASIS Posting

Transmission Provider will maintain on its OASIS a list of all Interconnection Requests. The list will identify, for each Interconnection Request: (i) the maximum summer and winter megawatt electrical output; (ii) the location by Operating Region; (iii) the station or transmission line or lines where the interconnection will be made; (iv) the projected In-Service Date; (v) the status of the Interconnection Request, including Queue Position; (vi) the type of Interconnection Service being requested; (vii) the availability of any studies related to the Interconnection Request; (viii) the date of the Interconnection

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Request; (ix) the type of Generating Facility to be constructed (technology and fuel type); and (x) for Interconnection Requests that have not resulted in a completed interconnection, an explanation as to why it was not completed. The list will not disclose the identity of Interconnection Customer until Interconnection Customer executes an SGIA or requests that Transmission Provider file an unexecuted SGIA with the Commission. Before holding a Scoping Meeting with its Affiliate, Transmission Provider shall post on OASIS an advance notice of its intent to do so. Transmission Provider shall post to its OASIS site any deviations from the study timelines set forth herein. Subject to Attachment M-2, Interconnection Study reports and Optional Interconnection Study reports shall be posted to Transmission Provider's OASIS site subsequent to the meeting between Interconnection Customer and Transmission Provider to discuss the applicable study results. Transmission Provider shall also post any known deviations in the Generating Facility's In-Service Date.

This section is subject to Attachment M-2.

3.5 Coordination with Affected Systems

Transmission Provider will attempt to coordinate the conduct of any studies required to determine the impact of the Interconnection Request on Affected Systems with Affected System Operators and, if possible, include those results (if available) in its applicable Interconnection Study within the time frame specified in this SGIP. Interconnection Customer will cooperate with Transmission Provider in all matters related to the conduct of studies and the determination of modifications to Affected Systems.

3.6 Withdrawal

Interconnection Customer may withdraw its Interconnection Request at any time by written notice of such withdrawal to Transmission Provider. In addition, if Interconnection

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Customer fails to adhere to all requirements of these SGIP, except as provided in Section 13.5 (Disputes), Transmission Provider shall deem the Interconnection Request to be withdrawn and shall provide written notice to Interconnection Customer of the deemed withdrawal and an explanation of the reasons for such deemed withdrawal. Upon receipt of such written notice, Interconnection Customer shall have fifteen (15) Business Days in which to either respond with information or actions that cures the deficiency or to initiate Dispute Resolution.

Withdrawal shall result in the loss of Interconnection Customer's Queue Position. If an Interconnection Customer disputes the withdrawal and loss of its Queue Position, then during Dispute Resolution, Interconnection Customer's Interconnection Request is eliminated from the queue until such time that the outcome of Dispute Resolution would restore its Queue Position. If the outcome of Dispute Resolution is to restore that Interconnection Request to the queue anywhere above an Interconnection Request with respect to which an SGIA was executed by Transmission Provider at any time after the commencement of such Dispute Resolution, and provided that SGIA differs from the SGIA that would have been executed had the disputing Interconnection Customer's Interconnection Request not been eliminated from the queue during Dispute Resolution, then Transmission Provider shall apply to the Commission for a determination of how the restoration of the Interconnection Request to the queues to the queue should impact any such SGIA, if at all.

An Interconnection Customer that withdraws or is deemed to have withdrawn its Interconnection Request shall pay to Transmission Provider all costs that Transmission Provider prudently incurs with respect to that Interconnection Request prior to Transmission Provider's receipt of notice described above. Interconnection Customer must pay all monies due to Transmission Provider before it is allowed to obtain any Interconnection Study data or results.

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Transmission Provider shall (i) update the OASIS Queue Position posting and (ii) refund to Interconnection Customer any refundable portion of Interconnection Customer's deposit or study payments that exceeds the costs that Transmission Provider has incurred, including Interest. In the event of such withdrawal, Transmission Provider, subject to the confidentiality provisions of Section 13.1, shall provide, at Interconnection Customer's request, all information that Transmission Provider developed for any completed study conducted up to the date of withdrawal of the Interconnection Request.

4.0 Queue Position

4.1 General

Transmission Provider shall assign a Queue Position based upon the date and time of receipt of the valid Interconnection Request; provided that, if the sole reason an Interconnection Request is not valid is the lack of required information on the application form, and Interconnection Customer provides such information in accordance with Section 3.3.3, then Transmission Provider shall assign Interconnection Customer a Queue Position based on the date and time the application form was originally filed. Moving a Point of Interconnection shall result in a lowering of Queue Position if it is deemed a Material Modification under Section 4.4.3.

The Queue Position of each Interconnection Request will be used to determine the order of performing the Interconnection Studies and determination of cost responsibility for the facilities necessary to accommodate the Interconnection Request. A higher queued Interconnection Request is one that has been placed "earlier" in the queue in relation to another Interconnection Request that is lower queued.

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4.2 Clustering

At Transmission Provider's option, Interconnection Requests may be studied using Clustering. If Transmission Provider elects to study Interconnection Requests using Clustering, all Interconnection Requests received within a period not to exceed one hundred and eighty (180) Calendar Days, hereinafter referred to as the "Queue Cluster Window", shall be studied together. Transmission Provider, may at its option, establish Queue Cluster Windows for any one or more Operating Regions, in which case only those Generating Facilities with Points of Interconnection within such Operating Region(s) received within the Queue Cluster Window shall be studied together using Clustering. Transmission Provider may study an Interconnection Request separately to the extent warranted by Good Utility Practice based upon the electrical remoteness of the proposed Generating Facility. Transmission Provider may, at its option, limit the number of Interconnection Requests Interconnection Customers may submit during a Queue Cluster Window for the same Generating Facility.

Clustering shall be conducted in such a manner to ensure the efficient implementation of the applicable regional transmission expansion plan in light of the Transmission System's capabilities at the time.

The Queue Cluster Window shall have a fixed time interval based on fixed annual opening and closing dates. Any changes to the established Queue Cluster Window interval and opening or closing dates shall be announced with a posting on Transmission Provider's OASIS beginning at least one hundred and eighty (180) Calendar Days in advance of the change and continuing thereafter through the end date of the first Queue Cluster Window that is to be modified.

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Transmission Provider may allocate the costs of Interconnection Studies carried out pursuant to Clustering, and the costs of Network Upgrades and Interconnection Facilities identified as required by those Interconnection Studies, between or among the Interconnection Customers having filed the Interconnection Requests that are the subject of the Clustering pro rata, based on the maximum MW electrical output of the Generating Facility (if the Interconnection Request is for a new Generating Facility) or the increase in MW electrical output of the Generating Facility (if the Interconnection Request is for an increase in the generating capacity of an existing Generating Facility) from each Interconnection Request, notwithstanding their Queue Positions.

Notwithstanding Section 11, within fifteen (15) Calendar Days of the date on which the Transmission Provider delivers the draft Interconnection Facilities Study report to Interconnection Customers whose Interconnection Requests have been studied pursuant to Clustering, each Interconnection Customer shall indicate on OASIS whether it is willing to pay and provide security for its applicable share of the good faith estimate of costs contained in the Facilities Study in accordance with Attachment O of the Tariff. Within thirty (30) Calendar Days after comments on the draft Interconnection Facilities Study report are submitted by the Interconnection Customers to the Transmission Provider, Transmission Provider shall tender a draft SGIA, together with draft appendices completed to the extent practicable, to each Interconnection Customer that has indicated that it is willing to pay and provide security for its applicable share of the costs. Each tendered SGIA shall be contingent on execution by each other Interconnection Customer receiving an SGIA. The remaining provisions of Section 11 with respect to the tender, negotiation and execution of SGIAs apply, except that if any one or more SGIAs so tendered is not executed by the applicable Interconnection Customer(s) and returned with evidence that milestones have been achieved pursuant to Section 11.3 by the deadline for execution of the SGIA by the Interconnection

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Customer, the Transmission Provider shall, within fifteen (15) Calendar Days thereafter, reissue SGIAs to those Interconnection Customers that executed the previous SGIA reapportioning the costs contained in the Interconnection Facilities Study among those remaining Interconnection Customers. Each of those remaining Interconnection Customers shall have fifteen (15) Calendar Days to execute its SGIA and return it with evidence that milestones have been achieved pursuant to Section 11.3. If any one or more of those SGIAs are not executed and returned as provided, then the Transmission Provider shall continue to reissue SGIAs as provided for above until all issued SGIAs are executed and returned as provided, or until the last SGIA tendered was tendered to a single Interconnection Customer.

4.3 Transferability of Queue Position

An Interconnection Customer may transfer its Queue Position to another entity only if such entity acquires the specific Generating Facility identified in the Interconnection Request and the Point of Interconnection does not change.

4.4 Modifications

Interconnection Customer shall submit to Transmission Provider, in writing, modifications to any information provided in the Interconnection Request. Interconnection Customer shall retain its Queue Position if the modifications are in accordance with Sections 4.4.1, 4.4.2, or 4.4.5, or are determined not to be Material Modifications pursuant to Section 4.4.3.

Notwithstanding the above, during the course of the Interconnection Studies, either Interconnection Customer or Transmission Provider may identify changes to the planned interconnection that may improve the costs and benefits (including reliability) of the interconnection, and the ability of the proposed change to accommodate the

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Interconnection Request. To the extent the identified changes are acceptable to Transmission Provider and Interconnection Customer, such acceptance not to be unreasonably withheld, Transmission Provider shall modify the Point of Interconnection and/or configuration in accordance with such changes and proceed with any re-studies necessary to do so in accordance with Section 6.5, Section 7.6 and Section 8.7 as applicable and Interconnection Customer shall retain its Queue Position.

4.4.1 Permitted Modifications Before Combined Study Agreement

Prior to the return of the executed Combined Study Agreement to Transmission Provider, modifications permitted under this Section shall include specifically: (a) a decrease of up to 60 percent of electrical output (MW) of the proposed project; (b) modifying the technical parameters associated with the Generating Facility technology or the Generating Facility step-up transformer impedance characteristics; and (c) modifying the interconnection configuration. For plant increases, the incremental increase in plant output will go to the end of the queue for the purposes of cost allocation and study analysis.

4.4.2 Permitted Modification After Interconnection System Impact Study

Permitted modifications before delivery of a notice authorizing the Transmission Provider to proceed with an Interconnection Facilities Study pursuant to Section 8.2 shall include specifically: (a) additional 15 percent decrease of electrical output (MW), and (b) Generating Facility technical parameters associated with modifications to Generating Facility technology and transformer impedances; provided, however, the incremental costs associated with those modifications are the responsibility of the requesting Interconnection Customer.

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4.4.3 Request for Modification Evaluation

Prior to making any modification other than those specifically permitted by Sections 4.4.1, 4.4.2 and 4.4.5, Interconnection Customer may first request that Transmission Provider evaluate whether such modification is a Material Modification. In response to Interconnection Customer's request, Transmission Provider shall evaluate the proposed modifications prior to making them and inform Interconnection Customer in writing of whether the modifications would constitute a Material Modification. Any change to the Point of Interconnection, except those deemed acceptable under Sections 4.4.1, 6.1, 7.2 or so allowed elsewhere, shall constitute a Material Modification. Interconnection Customer may then withdraw the proposed modification or proceed with a new Interconnection Request for such modification.

4.4.4 Additional Studies for Modification Evaluation

Upon receipt of Interconnection Customer's request for modification permitted under this Section 4.4, Transmission Provider shall commence and perform any necessary additional studies as soon as practicable, but in no event shall Transmission Provider commence such studies later than thirty (30) Calendar Days after receiving notice of Interconnection Customer's request. Any additional studies resulting from such modification shall be done at Interconnection Customer's cost. Notwithstanding anything else in these SGIP, all time periods and deadlines provided for in these SGIP and falling after the date of receipt of such notice of request by Transmission Provider shall be extended by a period equal to the time period between receipt of such notice or request and the date on which all additional studies are completed.

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4.4.5 Extensions of Commercial Operation Date

Extensions of less than three (3) cumulative years in the Commercial Operation Date of the Generating Facility to which the Interconnection Request relates are not material and should be handled through construction sequencing; provided, however, that extensions may necessitate a determination of whether the Generating Facility will retain its WECC accepted rating status and whether additional studies are required pursuant to the Applicable Reliability Standards.

5.0 Procedures for Interconnection Requests Submitted Prior to Effective Date of Standard Generator Interconnection Procedures

5.1 Queue Position for Pending Requests

- **5.1.1** If an Interconnection Customer has not executed an interconnection system impact study agreement with Transmission Provider as of the effective date of this SGIP, then all interconnection studies shall be processed in accordance with this SGIP.
- **5.1.2** If an Interconnection Customer has executed an interconnection system impact study agreement with Transmission Provider prior to the effective date of this SGIP, such interconnection study shall be completed in accordance with the terms of such agreement. With respect to any remaining studies for which an Interconnection Customer has not signed a study agreement prior to the effective date of the SGIP, Transmission Provider must offer Interconnection Customer the option of either continuing under Transmission Provider's existing interconnection Studies (for which it does not have a signed Interconnection Studies Agreement) in accordance with this SGIP.

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5.1.3 If an interconnection agreement has been executed before the effective date of the SGIP, then the interconnection agreement would be grandfathered.

5.2 Transition Period

Transmission Provider and Interconnection Customers with an outstanding request (i.e., an interconnection request for which an interconnection agreement has not been executed as of the effective date of this SGIP) for which an Interconnection Study must be completed pursuant to these SGIP shall transition such request to this SGIP within a reasonable period of time not to exceed sixty (60) Calendar Days. Any Interconnection Customer with an outstanding request as of the effective date of this SGIP may request a reasonable extension of any deadline, otherwise applicable, if necessary to avoid undue hardship or prejudice to its Interconnection Request. A reasonable extension shall be granted by Transmission Provider to the extent consistent with the intent and process provided for under this SGIP.

5.3 New Transmission Provider

If Transmission Provider transfers control of its Transmission System to a successor Transmission Provider during the period when an Interconnection Request is pending, the original Transmission Provider shall transfer to the successor Transmission Provider any amount of the deposit or payment with Interest thereon that exceeds the cost that it incurred to evaluate the request for interconnection. Any difference between such net amount and the deposit or payment required by this SGIP shall be paid by or refunded to the Interconnection Customer, as appropriate.

The original Transmission Provider shall coordinate with the successor Transmission Provider to complete any Interconnection Study, as appropriate, that the original Transmission Provider has begun but has not completed. If Transmission Provider has

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tendered a draft SGIA to Interconnection Customer but Interconnection Customer has not either executed the SGIA or requested the filing of an unexecuted SGIA with the Commission, unless otherwise provided, Interconnection Customer must complete negotiations with the successor Transmission Provider.

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6.0 Interconnection Feasibility Study

6.1 Interconnection Feasibility Study Agreement

Subject to Attachment M-2, simultaneously with the acknowledgement of a valid Interconnection Request Transmission Provider shall provide to Interconnection Customer an Interconnection Feasibility Study Agreement in the form of Appendix 2. The Interconnection Feasibility Study Agreement shall specify that Interconnection Customer is responsible for the actual cost of the Interconnection Feasibility Study. Within five (5) Business Days following the Scoping Meeting Interconnection Customer shall specify for inclusion in the attachment to the Interconnection Feasibility Study Agreement the Point(s) of Interconnection and any reasonable alternative Point(s) of Interconnection. Within five (5) Business Days following Transmission Provider's receipt of such designation, Transmission Provider shall tender to Interconnection Customer the Interconnection Feasibility Study Agreement, which includes a good faith estimate of the cost for completing the Interconnection Feasibility Study. Interconnection Customer shall execute and deliver to Transmission Provider the Interconnection Feasibility Study Agreement along with a \$15,000 deposit no later than thirty (30) Calendar Days after its receipt.

Subject to Attachment M-2, if the Interconnection Feasibility Study uncovers any unexpected result(s) not contemplated during the Scoping Meeting, a substitute Point of Interconnection identified by either Interconnection Customer or Transmission Provider, and acceptable to the other, such acceptance not to be unreasonably withheld, will be substituted for the designated Point of Interconnection specified above without loss of Queue Position, and re-studies shall be completed pursuant to Section 6.5 as applicable.

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Subject to Attachment M-2, for the purpose of this Section 6.1, if Transmission Provider and Interconnection Customer cannot agree on the substituted Point of Interconnection, then Interconnection Customer may direct that one of the alternatives as specified in the Interconnection Feasibility Study Agreement, as specified pursuant to Section 3.3.4, shall be the substitute.

If Interconnection Customer and Transmission Provider agree to forgo the Interconnection Feasibility Study, Transmission Provider will initiate an Interconnection System Impact Study under Section 7 of this SGIP and apply the \$15,000 deposit towards the Interconnection System Impact Study.

6.2 Scope of Interconnection Feasibility Study

The Interconnection Feasibility Study shall preliminarily evaluate the feasibility of the proposed interconnection to the Transmission System.

Subject to Attachment M-2, the Interconnection Feasibility Study will consider the Base Case as well as all generating facilities (and with respect to (iii), any identified Network Upgrades) that, on the date the Interconnection Feasibility Study is commenced: (i) are directly interconnected to the Transmission System; (ii) are interconnected to Affected Systems and may have an impact on the Interconnection Request; (iii) have a pending higher queued Interconnection Request to interconnect to the Transmission System; and (iv) have no Queue Position but have executed an interconnection agreement or an unexecuted interconnection agreement has been filed with the Commission. The Interconnection Feasibility Study will consist of a power flow and short circuit analysis. The Interconnection Feasibility Study will provide a list of facilities and a non-binding good faith estimate of cost responsibility and a non-binding good faith estimated time to construct.

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6.3 Interconnection Feasibility Study Procedures

Transmission Provider shall utilize existing studies to the extent practicable when it performs the study. Subject to Attachment M-2, Transmission Provider shall use Reasonable Efforts to complete the Interconnection Feasibility Study no later than fortyfive (45) Calendar Days after Transmission Provider receives the fully executed Interconnection Feasibility Study Agreement. At the request of Interconnection Customer or at any time Transmission Provider determines that it will not meet the required time frame for completing the Interconnection Feasibility Study, Transmission Provider shall notify Interconnection Customer as to the schedule status of the Interconnection Feasibility Study. If Transmission Provider is unable to complete the Interconnection Feasibility Study within that time period, it shall notify Interconnection Customer and provide an estimated completion date with an explanation of the reasons why additional time is required. Upon request, Transmission Provider shall provide Interconnection Customer supporting documentation, workpapers and relevant power flow, short circuit and stability databases for the Interconnection Feasibility Study, subject to confidentiality arrangements consistent with Section 13.1.

6.4 Meeting with Transmission Provider

At Interconnection Customer's request, within ten (10) Business Days of providing an Interconnection Feasibility Study report to Interconnection Customer, Transmission Provider and Interconnection Customer shall meet to discuss the results of the Interconnection Feasibility Study.

6.5 Re-Study

If re-study of the Interconnection Feasibility Study is required due to a higher queued project dropping out of the queue, or a modification of a higher queued project subject to

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Section 4.4, or re-designation of the Point of Interconnection pursuant to Section 6.1 Transmission Provider shall notify Interconnection Customer in writing. Transmission Provider shall use Reasonable Efforts to complete such re-study no later than forty-five (45) Calendar Days from the date of the notice. Any cost of re-study shall be borne by the Interconnection Customer being re-studied.

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7.0 Interconnection System Impact Study

7.1 Combined Study Agreement

Subject to Attachment M-2, unless otherwise agreed, pursuant to the Scoping Meeting provided in Section 3.3.4, simultaneously with the delivery of the Interconnection Feasibility Study to Interconnection Customer, Transmission Provider shall tender to Interconnection Customer a Combined Study Agreement. Within five (5) Business Days following the deadline established pursuant to these SGIP for the meeting, contemplated by Section 6.4, Transmission Provider shall provide to Interconnection Customer a non-binding good faith estimate of the cost and timeframe for completing the Interconnection System Impact Study.

7.2 Execution of Combined Study Agreement

Interconnection Customer shall execute and deliver the Combined Study Agreement to Transmission Provider no later than thirty (30) Calendar Days after its receipt along with demonstration of Site Control, and a \$75,000 deposit.

If Interconnection Customer does not provide all technical data required by the Combined Study Agreement when it delivers the executed Combined Study Agreement to Transmission Provider, Transmission Provider shall notify Interconnection Customer of the deficiency within five (5) Business Days of the receipt of the executed Combined Study Agreement and Interconnection Customer shall cure the deficiency within ten (10) Business Days of receipt of the notice, provided, however, such deficiency does not include failure to deliver the executed Combined Study Agreement or deposit. If the Interconnection System Impact Study uncovers any unexpected result(s) not contemplated during the Scoping Meeting and the Interconnection Feasibility Study, a substitute Point of Interconnection identified by either Interconnection Customer or

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Transmission Provider, and acceptable to the other, such acceptance not to be unreasonably withheld, will be substituted for the designated Point of Interconnection specified above without loss of Queue Position, and restudies shall be completed pursuant to Section 7.6 as applicable. For the purpose of this Section 7.2, if Transmission Provider and Interconnection Customer cannot agree on the substituted Point of Interconnection, then Interconnection Customer may direct that one of the alternatives as specified in the Interconnection Feasibility Study Agreement, as specified pursuant to Section 3.3.4, shall be the substitute.

7.3 Scope of Interconnection System Impact Study

The Interconnection System Impact Study shall evaluate the impact of the proposed interconnection on the reliability of the Transmission System. The Interconnection System Impact Study will consider the Base Case as well as all generating facilities (and with respect to (iii) below, any identified Network Upgrades associated with such higher queued interconnection) that, on the date the Interconnection System Impact Study is commenced: (i) are directly interconnected to the Transmission System; (ii) are interconnected to Affected Systems and may have an impact on the Interconnect to the Transmission System; and (iv) have no Queue Position but for which there is an executed interconnection agreement or an unexecuted interconnection System Impact Study will also consider all other Interconnection Requests to be studied concurrently pursuant to Section 4.2.

The Interconnection System Impact Study will consist of a short circuit analysis, a stability analysis, and a power flow analysis. The Interconnection System Impact Study will state the assumptions upon which it is based; state the results of the analyses; and

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provide the requirements or potential impediments to providing the requested Interconnection Service, including a preliminary indication of the cost and length of time that would be necessary to correct any problems identified in those analyses and implement the interconnection. The Interconnection System Impact Study will provide a list of facilities that are required as a result of the Interconnection Request and a nonbinding good faith estimate of cost responsibility (including any amounts that Interconnection Customer may have to pay, or security the Interconnection Customer may have to provide, pursuant to Article 11 of the SGIA) and a non-binding good faith estimated time to construct.

7.4 Interconnection System Impact Study Procedures

Transmission Provider shall coordinate the Interconnection System Impact Study with any Affected System that is affected by the Interconnection Request pursuant to Section 3.5 above. Transmission Provider shall utilize existing studies to the extent practicable when it performs the study. Transmission Provider shall use Reasonable Efforts to complete the Interconnection System Impact Study within ninety (90) Calendar Days after the receipt of the Combined Study Agreement or notification to proceed, study payment, and technical data. If Transmission Provider uses Clustering, Transmission Provider shall use Reasonable Efforts to deliver a completed Interconnection System Impact Study within ninety (90) Calendar Days after the close of the Queue Cluster Window.

At the request of Interconnection Customer or at any time Transmission Provider determines that it will not meet the required time frame for completing the Interconnection System Impact Study, Transmission Provider shall notify Interconnection Customer as to the schedule status of the Interconnection System Impact Study. If Transmission Provider is unable to complete the Interconnection System Impact Study

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within the time period, it shall notify Interconnection Customer and provide an estimated completion date with an explanation of the reasons why additional time is required. Upon request, Transmission Provider shall provide Interconnection Customer all supporting documentation, workpapers and relevant pre-Interconnection Request and post-Interconnection Request power flow, short circuit and stability databases for the Interconnection System Impact Study, subject to confidentiality arrangements consistent with Section 13.1.

7.5 Meeting with Transmission Provider

At Interconnection Customer's request, within ten (10) Business Days of providing an Interconnection System Impact Study report to Interconnection Customer, Transmission Provider and Interconnection Customer shall meet to discuss the results of the Interconnection System Impact Study.

7.6 Re-Study

If re-study of the Interconnection System Impact Study is required due to a higher queued project dropping out of the queue, a modification of a higher queued project subject to 4.4, or re-designation of the Point of Interconnection pursuant to Section 7.2 Transmission Provider shall notify Interconnection Customer in writing. Such re-study shall take no longer than sixty (60) Calendar Days from the date of notice. Any cost of re-study shall be borne by the Interconnection Customer being re-studied.

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8.0 Interconnection Facilities Study

8.1 Interconnection Facilities Study

Within five (5) Business Days following the deadline established pursuant to these SGIP for the meeting contemplated by Section 7.5, Transmission Provider shall provide to Interconnection Customer a non-binding good faith estimate of the cost and timeframe for completing the Interconnection Facilities Study.

8.2 Authority to Proceed

Interconnection Customer shall notify Transmission Provider in writing of whether it wishes Transmission Provider to proceed with the Interconnection Facilities Study no later than ten (10) Calendar Days of receipt from Transmission Provider of the cost estimate contemplated by Section 8.1. If Interconnection Customer wishes Transmission Provider to proceed with the Interconnection Facilities Study, it shall provide Transmission Provider with a \$150,000 deposit and all additional technical data requested by Transmission Provider together with such notice.

If Interconnection Customer does not provide all requested additional technical data when it delivers such notice, Transmission Provider shall notify Interconnection Customer in writing of the deficiency within five (5) Business Days of receipt of Interconnection Customer's notice to proceed. Interconnection Customer shall cure the deficiency within ten (10) Business Days of receipt of Transmission Provider's notice.

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

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receipt of invoice. Transmission Provider shall continue to hold the amounts on deposit until settlement of the final invoice.

8.3 Scope of Interconnection Facilities Study

The Interconnection Facilities Study shall specify and estimate the cost of the equipment, engineering, procurement and construction work needed to implement the conclusions of the Interconnection System Impact Study in accordance with Good Utility Practice to physically and electrically connect the Generating Facility to the Transmission System. The Interconnection Facilities Study shall also identify the electrical switching configuration of the connection equipment, including, without limitation: the transformer, switchgear, meters, and other station equipment; the nature and estimated cost of any Transmission Provider's Interconnection; and an estimate of the time required to complete the construction and installation of such facilities.

8.4 Interconnection Facilities Study Procedures

Transmission Provider shall coordinate the Interconnection Facilities Study with any Affected System pursuant to Section 3.5 above. Transmission Provider shall utilize existing studies to the extent practicable in performing 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 receipt of notice from the Interconnection Customer to proceed pursuant to Section 8.2: ninety (90) Calendar Days, with no more than a +/- 20 percent cost estimate contained in the report; or one hundred eighty (180) Calendar Days, if Interconnection Customer requests a +/- 10 percent cost estimate.

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At the request of Interconnection Customer or at any time Transmission Provider determines that it will not meet the required time frame for completing the Interconnection Facilities Study, Transmission Provider shall notify Interconnection Customer as to the schedule status of the Interconnection Facilities Study. If Transmission Provider is unable to complete the Interconnection Facilities Study and issue a draft Interconnection Facilities Study report within the time required, it shall notify Interconnection Customer and provide an estimated completion date and an explanation of the reasons why additional time is required.

8.5 Meeting with Transmission Provider

At Interconnection Customer's request, within ten (10) Business Days of providing the draft Interconnection Facilities Study report to Interconnection Customer, Transmission Provider and Interconnection Customer shall meet to discuss the results of the Interconnection Facilities Study.

8.6 Comments

Interconnection Customer may, within thirty (30) Calendar Days after receipt of the draft Interconnection Facilities Study report, provide written comments to Transmission Provider, which Transmission Provider shall include in the final report. Transmission Provider shall issue the final Interconnection Facilities Study report within fifteen (15) Business Days of receiving Interconnection Customer's comments or promptly upon receiving Interconnection Customer's statement that it will not provide comments. Transmission Provider may reasonably extend such fifteen-day period upon notice to Interconnection Customer if Interconnection Customer's comments require Transmission Provider to perform additional analyses or make other significant modifications prior to the issuance of the final Interconnection Facilities Study report. Upon request,

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Transmission Provider shall provide Interconnection Customer supporting documentation, workpapers, and databases or data developed in the preparation of the Interconnection Facilities Study report, subject to confidentiality arrangements consistent with Section 13.1.

8.7 Re-Study

If re-study of the Interconnection Facilities Study is required due to a higher queued project dropping out of the queue or a modification of a higher queued project pursuant to Section 4.4, Transmission Provider shall so notify Interconnection Customer in writing. Such re-study shall take no longer than sixty (60) Calendar Days from the date of notice. Any cost of re-study shall be borne by the Interconnection Customer being re-studied.

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9.0 Engineering and Procurement (E&P) Agreement

Prior to executing an SGIA, an Interconnection Customer may, in order to advance the implementation of its interconnection, request and Transmission Provider shall offer Interconnection Customer, an E&P Agreement that authorizes Transmission Provider to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection. However, Transmission Provider shall not be obligated to offer an E&P Agreement if Interconnection Customer is in Dispute Resolution as a result of an allegation that Interconnection Customer has failed to meet any milestones or comply with any prerequisites specified in other parts of the SGIP. The E&P Agreement is an optional procedure and it will not alter the Interconnection Customer's Queue Position or In-Service Date.

The E&P Agreement shall provide for Interconnection Customer to pay the cost of all activities authorized by Interconnection Customer and to make advance payments or provide other satisfactory security for such costs. Interconnection Customer shall pay the cost of such authorized activities and any cancellation costs for equipment that is already ordered for its interconnection, which cannot be mitigated as hereafter described, whether or not such items or equipment later become unnecessary. If Interconnection Customer withdraws its Interconnection Request or either Party terminates the E&P Agreement, to the extent the equipment ordered can be cancelled under reasonable terms, Interconnection Customer shall be obligated to pay the associated cancellation costs. To the extent that the equipment cannot be reasonably cancelled, Transmission Provider may elect: (i) to take title to the equipment, in which event Transmission Provider shall refund Interconnection Customer any amounts paid by Interconnection Customer for such equipment and shall pay the cost of delivery of such equipment, or (ii) to transfer title to and deliver such equipment to Interconnection

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Customer, in which event Interconnection Customer shall pay any unpaid balance and cost of delivery of such equipment.

10.0 Optional Interconnection Study

10.1 Optional Interconnection Study Agreement

On or after the date when Interconnection Customer receives an Interconnection System Impact Study report, or at any time for Interconnection Customers subject to Clustering, Interconnection Customer may request, and Transmission Provider shall perform a reasonable number of Optional Interconnection Studies. The request shall describe the assumptions that Interconnection Customer wishes Transmission Provider to study within the scope described in Section 10.2. Within five (5) Business Days after receipt of a request for an Optional Interconnection Study, Transmission Provider shall provide to Interconnection Customer an Optional Interconnection Study Agreement in the form of Appendix 4.

The Optional Interconnection Study Agreement shall specify: (i) the technical data that Interconnection Customer must provide for each phase of the Optional Interconnection Study, (ii) Interconnection Customer's assumptions as to which Interconnection Requests with earlier queue priority dates will be excluded from the Optional Interconnection Study case and assumptions as to the type of Interconnection Service for Interconnection Requests remaining in the Optional Interconnection Study case, and (iii) Transmission Provider's estimate of the cost of the Optional Interconnection Study. To the extent known by Transmission Provider, such estimate shall include any costs expected to be incurred by any Affected System whose participation is necessary to complete the Optional Interconnection Study. Notwithstanding the above, Transmission Provider shall not be required as a result of an Optional Interconnection Study request to

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conduct any additional Interconnection Studies with respect to any other Interconnection Request.

Interconnection Customer shall execute the Optional Interconnection Study Agreement within ten (10) Business Days of receipt and deliver the Optional Interconnection Study Agreement, the technical data and a \$15,000 deposit to Transmission Provider.

10.2 Scope of Optional Interconnection Study

The Optional Interconnection Study will consist of a sensitivity analysis based on the assumptions specified by Interconnection Customer in the Optional Interconnection Study Agreement. The Optional Interconnection Study will also identify Transmission Provider's Interconnection Facilities and the Network Upgrades, and the estimated cost thereof, that may be required to provide transmission service or Interconnection Service based upon the results of the Optional Interconnection Study. The Optional Interconnection Study shall be performed solely for informational purposes. Transmission Provider shall use Reasonable Efforts to coordinate the study with any Affected Systems that may be affected by the types of Interconnection Services that are being studied. Transmission Provider shall utilize existing studies to the extent practicable in conducting the Optional Interconnection Study.

10.3 Optional Interconnection Study Procedures

The executed Optional Interconnection Study Agreement, the deposit, and technical and other data called for therein must be provided to Transmission Provider within ten (10) Business Days of Interconnection Customer receipt of the Optional Interconnection Study Agreement. Transmission Provider shall use Reasonable Efforts to complete the Optional Interconnection Study within a mutually agreed upon time period specified within the Optional Interconnection Study Agreement. If Transmission Provider is unable

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to complete the Optional Interconnection Study within such time period, it shall notify Interconnection Customer and provide an estimated completion date and an explanation of the reasons why additional time is required. Any difference between the study payment and the actual cost of the study shall be paid to Transmission Provider or refunded to Interconnection Customer, as appropriate. Upon request, Transmission Provider shall provide Interconnection Customer supporting documentation and workpapers and databases or data developed in the preparation of the Optional Interconnection Study, subject to confidentiality arrangements consistent with Section 13.1.

11.0 Standard Generator Interconnection Agreement (SGIA)

11.1 Tender

Interconnection Customer shall tender comments on the draft Interconnection Facilities Study report within thirty (30) Calendar Days of receipt of the report. Within thirty (30) Calendar Days after the comments are submitted, Transmission Provider shall tender a SGIA, together with draft appendices. Interconnection Customer shall return the completed draft appendices within thirty (30) Calendar Days.

11.2 Negotiation

Notwithstanding Section 11.1, at the request of Interconnection Customer Transmission Provider shall begin negotiations with Interconnection Customer concerning appendices A through D to the SGIA at any time after Transmission Provider delivers the draft Interconnection Facilities Study report to Interconnection Customer pursuant to Section 8.4. Following such request, or where no such request is made, following receipt by Transmission Provider of the completed draft appendices to the SGIA from Interconnection Customer pursuant to Section 11.1, Transmission Provider and

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Interconnection Customer shall negotiate concerning any disputed provisions of appendices A through D to the SGIA for not more than sixty (60) Calendar Days after Transmission Provider's tender of the SGIA and draft appendices pursuant to Section 11.1. If Interconnection Customer determines that negotiations are at an impasse, it may request termination of the negotiations at any time after Transmission Provider's tender of the SGIA and draft appendices pursuant to Section 11.1. Transmission Provider's tender of the SGIA and draft appendices pursuant to Section 11.1. Transmission Provider shall provide to Interconnection Customer a final SGIA within fifteen (15) Business Days after the completion of the negotiation process. Unless otherwise agreed by the Parties, if Interconnection Customer has not executed a final SGIA, requested filing of an unexecuted SGIA with the Commission, or initiated Dispute Resolution procedures pursuant to Section 13.5, within thirty (30) Calendar Days of Transmission Provider's tender of a final SGIA, it shall be deemed to have withdrawn its Interconnection Request.

11.3 Execution and Filing

If Interconnection Customer executes a final SGIA, it shall execute two originals of the tendered final SGIA and return them to Transmission Provider. At the same time, Interconnection Customer also shall provide reasonable evidence that one or more of the following milestones in the development of the Generating Facility, at Interconnection Customer election, has been achieved: (i) the execution of a contract for the supply or transportation of fuel to the Generating Facility; (ii) the execution of a contract for the supply of cooling water to the Generating Facility; (iii) execution of a contract for the engineering for, procurement of major equipment for, or construction of, the Generating Facility; (iv) execution of a contract for the sale of electric energy or capacity from the Generating Facility; or (v) application for an air, water, or land use permit.

If Interconnection Customer requests in writing that Transmission Provider file with the Commission an SGIA in unexecuted form, Transmission Provider shall, as soon as

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practicable, but not later than ten (10) Business Days after receiving a request to file an unexecuted SGIA with the Commission, file an SGIA with Commission, together with its explanation of any matters as to which Interconnection Customer and Transmission Provider disagree and support for the costs that Transmission Provider proposes to charge to, or security that Transmission Provider proposes to require from, Interconnection Customer under the SGIA. An unexecuted SGIA should contain terms and conditions deemed appropriate by Transmission Provider for the Interconnection Request. If the Parties agree to proceed with design, procurement, and construction of facilities and upgrades under the agreed-upon terms of the unexecuted SGIA, they may proceed subject to the Commission ordering otherwise.

11.4 Commencement of Interconnection Activities

If Interconnection Customer executes the final SGIA, Transmission Provider and Interconnection Customer shall perform their respective obligations in accordance with the terms of the SGIA, subject to modification by the Commission. Upon submission of an unexecuted SGIA, Interconnection Customer and Transmission Provider shall promptly comply with the unexecuted SGIA, subject to modification by the Commission.

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12.0 Construction of Transmission Provider's Interconnection Facilities and Network Upgrades

12.1 Schedule

Transmission Provider and Interconnection Customer shall negotiate in good faith concerning a schedule for the construction of Transmission Provider's Interconnection Facilities and the Network Upgrades.

12.2 Construction Sequencing

12.2.1 General

In general, the In-Service Date of an Interconnection Customer seeking interconnection to the Transmission System will determine the sequence of construction of Network Upgrades.

12.2.2 Advance Construction of Network Upgrades that are an Obligation of an Entity Other Than Interconnection Customer

An Interconnection Customer with an SGIA, in order to maintain its In-Service Date, may request that Transmission Provider advance to the extent necessary the completion of Network Upgrades that: (i) were assumed in the Interconnection Studies for such Interconnection Customer, (ii) are necessary to support such In-Service Date, and (iii) would otherwise not be completed, pursuant to a contractual obligation of an entity other than Interconnection Customer that is seeking interconnection to the Transmission System, in time to support such In-Service Date. Upon such request, Transmission Provider will use Reasonable Efforts to advance the construction of such Network Upgrades to accommodate such request; provided that Interconnection Customer

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provides Transmission Provider security as contemplated by Attachment O of the Tariff for: (i) any associated expediting costs and (ii) the cost of such Network Upgrades.

Transmission Provider will reduce the outstanding amount of the security provided by the Interconnection Customer for both the expediting costs and the cost of such Network Upgrades, in accordance with Attachment O of the Tariff. The entity that would have had a contractual obligation to provide security for such Network Upgrades had they not been expedited shall be obligated to provide security for the outstanding balance of the security provided by the Interconnection Customer for such Network Upgrades on the date that it would have been due had there been no request for advance construction. Upon receipt of security from that entity, Transmission Provider shall release the security provided by the Interconnection Customer for such Network Upgrades.

12.2.3 Advancing Construction of Network Upgrades that are Part of an Expansion Plan of Transmission Provider

An Interconnection Customer with an SGIA, in order to maintain its In-Service Date, may request that Transmission Provider advance to the extent necessary the completion of Network Upgrades that: (i) are necessary to support such In-Service Date and (ii) would otherwise not be completed, pursuant to an expansion plan of Transmission Provider, in time to support such In-Service Date. Upon such request, Transmission Provider will use Reasonable Efforts to advance the construction of such Network Upgrades to accommodate such request; provided that Interconnection Customer provides Transmission Provider security as contemplated by Attachment O of the Tariff for any associated expediting costs. Interconnection Customer may consolidate security for the expediting costs with other security in accordance with Attachment O.

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12.2.4 Amended Interconnection System Impact Study

An Interconnection System Impact Study will be amended to determine the facilities necessary to support the requested In-Service Date. This amended study will include those transmission and Generating Facilities that are expected to be in service on or before the requested In-Service Date.

13.0 Miscellaneous

13.1 Confidentiality

Confidential Information shall include, without limitation, all information relating to a Party's technology, research and development, business affairs, and pricing, and any information supplied by either of the Parties to the other prior to the execution of an SGIA.

Information is Confidential Information only if it is clearly designated or marked in writing as confidential on the face of the document, or, if the information is conveyed orally or by inspection, if the Party providing the information orally informs the Party receiving the information that the information is confidential.

If requested by either Party, the other Party shall provide in writing, the basis for asserting that the information referred to in this Article warrants confidential treatment, and the requesting Party may disclose such writing to the appropriate Governmental Authority. Each Party shall be responsible for the costs associated with affording confidential treatment to its information.

Notwithstanding the foregoing, if Transmission Provider performs study work using WECC data (power flow, stability, and disturbance monitoring data) for an Interconnection Customer that is not a member of WECC, Interconnection Customer

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may only look at the data at Transmission Provider's office, but shall not be permitted to have the data or a copy of the data, and only once Interconnection Customer has signed the WECC Non-member Confidentiality Agreement in accordance with the Applicable Reliability <u>Council Coordinator policies</u>.

Notwithstanding the foregoing, the release of Confidential Information shall be subject to Applicable Laws and Regulations and Applicable Reliability Standards.

13.1.1 Scope

Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the other Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the other Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of the SGIA; or (6) is required, in accordance with Section 13.1.6, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise required to be disclosed by Applicable Laws and Regulations, or is necessary in any legal proceeding establishing rights and obligations under the SGIA. Information designated as Confidential Information will no longer be deemed confidential if the Party that designated the information as confidential notifies the other Party that it no longer is confidential.

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13.1.2 Release of Confidential Information

Neither Party shall release or disclose Confidential Information to any other person, except to its Affiliates (limited by the Standards of Conduct requirements), employees, contractors, consultants, or to parties who may be or considering providing financing to or equity participation with Interconnection Customer, or to potential purchasers or assignees of Interconnection Customer, on a need-to-know basis in connection with these procedures, unless such person has first been advised of the confidentiality provisions of this Section 13.1 and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Section 13.1.

13.1.3 Rights

Each Party retains all rights, title, and interest in the Confidential Information that each Party discloses to the other Party. The disclosure by each Party to the other Party of Confidential Information shall not be deemed a waiver by either Party or any other person or entity of the right to protect the Confidential Information from public disclosure.

13.1.4 No Warranties

By providing Confidential Information, neither Party makes any warranties or representations as to its accuracy or completeness. In addition, by supplying Confidential Information, neither Party obligates itself to provide any particular information or Confidential Information to the other Party nor to enter into any further agreements or proceed with any other relationship or joint venture.

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13.1.5 Standard of Care

Each Party shall use at least the same standard of care to protect Confidential Information it receives as it uses to protect its own Confidential Information from unauthorized disclosure, publication or dissemination. Each Party may use Confidential Information solely to fulfill its obligations to the other Party under these procedures or its regulatory requirements.

13.1.6 Order of Disclosure

If a court or a Governmental Authority or entity with the right, power, and apparent authority to do so requests or requires either Party, by subpoena, oral deposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Party with prompt notice of such request(s) or requirement(s) so that the other Party may seek an appropriate protective order or waive compliance with the terms of the SGIA. Notwithstanding the absence of a protective order or waiver, the Party may disclose such Confidential Information which, in the opinion of its counsel, the Party is legally compelled to disclose. Each Party will use Reasonable Efforts to obtain reliable assurance that confidential treatment will be accorded any Confidential Information so furnished.

13.1.7 Remedies

The Parties agree that monetary damages would be inadequate to compensate a Party for the other Party's breach of its obligations under this Section 13.1. Each Party accordingly agrees that the other Party shall be entitled to equitable relief, by way of injunction or otherwise, if the first Party breaches or threatens to breach its obligations under this Section 13.1, which equitable relief shall be granted without bond or proof of

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damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the breach of this Section 13.1, but shall be in addition to all other remedies available at law or in equity. The Parties further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Section 13.1.

13.1.8 Disclosure to the Commission

Notwithstanding anything in this Section 13.1 to the contrary, if the Commission, during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to the SGIP, the Party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the Party must request that the information be treated as confidential and non-public by the Commission and that the information be withheld from public disclosure.

13.1.9 Subject to the exception in Section 13.1.8, any information that a Party claims is competitively sensitive, commercial or financial information (Confidential Information) shall not be disclosed by the other Party to any person not employed or retained by the other Party, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Party to be required to be disclosed in connection with a dispute between or among the Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the other Party, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this SGIP or as a transmission service provider or a Control Area operator including disclosing the

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Confidential Information to a subregional, regional or national reliability organization or planning group. The Party asserting confidentiality shall notify the other Party in writing of the information it claims is confidential. Prior to any disclosures of the other Party's Confidential Information under this subparagraph, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subparagraph, the disclosing Party agrees to promptly notify the other Party in writing and agrees to assert confidentiality and cooperate with the other Party in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

- **13.1.10** This Section 13.1 shall not apply to any information that was or is hereafter in the public domain (except as a result of a breach of this provision).
- **13.1.11** Transmission Provider shall, at Interconnection Customer's election, destroy, in a confidential manner, or return Confidential Information provided, at the time Confidential Information is no longer needed.

13.2 Delegation of Responsibility

Transmission Provider may use the services of contractors as it deems appropriate to perform its obligations under this SGIP.

Transmission Provider shall remain primarily liable to Interconnection Customer for the performance of such contractors and compliance with its obligations of this SGIP. The subcontractor shall keep all information provided confidential and shall use such information solely for the performance of such obligation for which it was provided and no other purpose.

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13.3 Obligation for Study Costs

Transmission Provider shall charge and Interconnection Customer shall pay the actual costs of the Interconnection Studies. Any difference between the study deposit and the actual cost of the applicable Interconnection Study shall be paid by or refunded, except as otherwise provided herein, to Interconnection Customer or offset against the cost of any future Interconnection Studies associated with the applicable Interconnection Request prior to beginning of any such future Interconnection Studies. Any invoices for Interconnection Studies shall include a detailed and itemized accounting of the cost of each Interconnection Study. Interconnection Customer shall pay any such undisputed costs within thirty (30) Calendar Days of receipt of an invoice therefor. Transmission Provider shall not be obligated to perform or continue to perform any studies unless Interconnection Customer has paid all undisputed amounts in compliance herewith.

13.4 Third Parties Conducting Studies

If (i) at the time of the signing of an Interconnection Study agreement there is disagreement as to the estimated time to complete an Interconnection Study, (ii) Interconnection Customer receives notice pursuant to Sections 6.3, 7.4 or 8.4 that Transmission Provider will not complete an Interconnection Study within the applicable timeframe for such Interconnection Study, or (iii) Interconnection Customer receives neither the Interconnection Study nor a notice under Sections 6.3, 7.4 or 8.4 within the applicable timeframe for such Interconnection Study, then Interconnection Customer may require Transmission Provider to utilize a third party consultant reasonably acceptable to Interconnection Customer and Transmission Provider to perform such Interconnection Study under the direction of Transmission Provider. At other times, Transmission Provider may also utilize a third party consultant to perform such

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Interconnection Study, either in response to a general request of Interconnection Customer, or on its own volition.

In all cases, use of a third party consultant shall be in accord with Article 26 of the SGIA (Subcontractors) and limited to situations where Transmission Provider determines that doing so will help maintain or accelerate the study process for Interconnection Customer's pending Interconnection Request and not interfere with Transmission Provider's progress on Interconnection Studies for other pending Interconnection Requests. In cases where Interconnection Customer requests use of a third party consultant to perform such Interconnection Study, Interconnection Customer and Transmission Provider shall negotiate all of the pertinent terms and conditions, including selection through a request for proposal process where appropriate, reimbursement arrangements and the estimated study completion date and study review deadline. Transmission Provider shall convey all workpapers, data bases, study results and all other supporting documentation prepared to date with respect to the Interconnection Request as soon as practicable upon Interconnection Customer's request subject to the confidentiality provision in Section 13.1. In any case, such third party contract may be entered into with either Interconnection Customer or Transmission Provider at Transmission Provider's discretion. In the case of (iii) Interconnection Customer maintains its right to submit a claim to Dispute Resolution to recover the costs of such third party study. Such third party consultant shall be required to comply with this SGIP, Article 26 of the SGIA (Subcontractors), and the relevant provisions of the Tariff as would apply if Transmission Provider were to conduct the Interconnection Study and shall use the information provided to it solely for purposes of performing such services and for no other purposes. Transmission Provider shall cooperate with such third party consultant and Interconnection Customer to complete and issue the Interconnection Study in the shortest reasonable time.

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13.5 Disputes

In the event either Party has a dispute, or asserts a claim, that arises out of or in connection with the other Party's failure to comply with these SGIP, such dispute or claim shall be resolved in accordance with Dispute Resolution. Notwithstanding anything else herein, no Party shall be liable to the other for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with these SGIP.

13.6 Notice

Unless otherwise provided in these SGIP, any notice, demand or request required or permitted to be given by either Party to the other and any instrument required or permitted to be tendered or delivered by either Party in writing to the other shall be effective only if given in writing, and may be so given by recognized national courier, or by depositing the same with the Canadian Postal Service with postage prepaid for delivery by certified or registered mail, addressed to the Party, or personally delivered to the Party, at the address for that Party's representative as set out in the Interconnection Request. Any notice, demand or request required or permitted to be given by either Party to the other and not required by these SGIP to be given in writing may be so given by telephone, facsimile or email to the numbers or addresses for the Party's representative as set out in the Interconnection by telephone, facsimile or email to the numbers or addresses for the Party's representative as set out in the Interconnection by telephone, facsimile or email to the numbers or addresses for the Party's representative as set out in the Interconnection Barty to the other and not required by these SGIP to be given in writing may be so given by telephone, facsimile or email to the numbers or addresses for the Party's representative as set out in the Interconnection Request.

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APPENDIX 1 to SGIP

Interconnection Request for a Generating Facility

- The undersigned Interconnection Customer submits this request to interconnect its Generating Facility with Transmission Provider's Transmission System pursuant to the Tariff. Capitalized terms used but not defined herein shall have the meanings given to them in the SGIP.
- 2. This Interconnection Request is for (check one):
 - _____ A proposed new Generating Facility.
 - _____ An increase in the generating capacity or a Material Modification of an existing Generating Facility.
- 3. The type of interconnection service requested (check one):
 - _____ Energy Resource Interconnection Service
 - _____ Network Resource Interconnection Service
- Check here only if Interconnection Customer requesting Network Resource Interconnection Service also seeks to have its Generating Facility studied for Energy Resource Interconnection Service.
- 5. Interconnection Customer provides the following information:
 - Address or location or the proposed new Generating Facility site (to the extent known) or, in the case of an existing Generating Facility, the name and specific location of the existing Generating Facility;

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- (b) Maximum summer at _____ degrees C and winter at _____ degrees C megawatt electrical output of the proposed new Generating Facility or the amount of megawatt increase in the generating capacity of an existing Generating Facility;
- (c) General description of the equipment configuration;
- (d) Commercial Operation Date (Day, Month, and Year);
- Name, address, telephone number, fax number and e-mail address of Interconnection Customer's contact person;
- (f) Approximate location of the proposed Point of Interconnection (optional); and
- (g) Interconnection Customer Data (set forth in Attachment A)
- 6. Applicable deposit amount as specified in the SGIP.
- 7. Evidence of Site Control as specified in the SGIP (check one)
 - _____ Is attached to this Interconnection Request
 - _____ Will be provided at a later date in accordance with the SGIP
- 8. This Interconnection Request shall be submitted to the representative indicated below:

<u>BC Hydro</u> BC Transmission Corporation Suite 1100, Four Bentall Centre 1055 Dunsmuir Street Vancouver BC, V7X 1V5

Attention: <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a> <a>

Telephone: <*> Facsimile: <*>

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Email: <*>

9. Representative of Interconnection Customer to contact:

[To be completed by Interconnection Customer]

Telephone: <*>

Facsimile: <*>

Email: <*>

10. This Interconnection Request is submitted by:

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> Attachment A To Appendix 1 Interconnection Request

DATA REQUIREMENTS FOR GENERATOR INTERCONNECTION

Interconnection Customers must submit the applicable data submission form provided in the Transmission Provider's Business Practices identified to be submitted as Attachment A to Appendix 1 Interconnection Request. The data that the Transmission Provider may require in the data submission forms in order to assess the Interconnection Request is set out below. The definition and explanation of the data may be found in the Generator Interconnection Equipment Statement(s) and Technical Interconnection Requirements of the Transmission Provider's Business Practices.

1. Site Location and Point of Interconnection

All Interconnection Customers will be required to submit a site location map, which shall include all generating sites of a project, the point of interconnection (POI), and the transmission line(s) to connect the project into the system at POI. The locations of generating sites, new substations, or new taps on existing lines must also be shown on the map and located by latitude and longitude. On the site location map, the Interconnection Customer shall:

- (a) Identify the substation(s), if connecting to an existing <u>BCTCBC Hydro</u> substation(s), or
- (b) Identify the line by name (such as 2L1) as well as the location of the proposed interconnection, if connecting to an existing <u>BCTCBC Hydro</u> transmission line.

The Interconnection Customer will also be required to provide a site layout plan.

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2. Electrical Data

The required electrical data must be submitted by a registered professional engineer in the APEGBC.

2.1 One-Line Diagram

All Interconnection Customers will be required to provide a one-line diagram that includes major station equipment (such as generators, transformers, station load, breakers, disconnects, capacitors, reactors, surge arrestors, current transformers, voltage transformers, capacitive voltage transformers), equipment ratings, transformer configuration, generator configuration and grounding, and bus arrangement.

The Interconnection Customer will also be required to provide a protection one-line diagram showing metering and relaying.

2.2 Generator Data

If one or more generators are included, the following data for each different type of generator and generator step up transformer may be required to be provided by the Interconnection Customer. For wind turbine generators, models of all control schemes must be submitted in PSS/E and EMTP formats.

- (a) Generator General Specifications
 - 1. Energy source (e.g., hydro, thermal, wind, combined cycle.) and energy profile in a typical year, and/or typical daily pattern for wind.
 - 2. Number of rotating generators with power factor, MW and MVAR ratings.
 - 3. Number of turbines, combustion, steam, wind, hydro, etc.
 - 4. Maximum output in winter, spring and summer, MW.
 - 5. Maximum injected MW's at the POI.

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- 6. Station service load for auxiliaries, MW, MVAR.
- 7. Station service connection plan.
- (b) Generator Data, Synchronous Machines

The Transmission Provider may require the following data for each different generator assembly:

- 1. Reactive capability, 'P-Q' curves;
- 2. Excitation 'Vee' curves;
- 3. Saturation and synchronous impedance curves;
- 4. Identifier (e.g., Generator unit number);
- 5. Number of similar generators;
- 6. Complex power, MVA;
- 7. Active power, MW;
- 8. Terminal voltage, kV;
- 9. Machine parameters:
 - a. Sb Power base (MVA) upon which machine data is specified;
 - b. H Total inertia constant of the generator and turbine, MWs/MVA;
 - c. Ra Armature resistance, pu;
 - d. Xd Direct axis unsaturated synchronous reactance, pu;
 - e. Xq Quadrature axis unsaturated synchronous reactance, pu;
 - f. X'd Direct axis unsaturated transient reactance, pu;
 - g. X'q Quadrature axis saturated and unsaturated transient reactance, pu;
 - h. X"d Direct axis saturated and unsaturated subtransient reactance, pu;
 - i. XIm Stator leakage reactance, pu;
 - j. T'do Direct axis transient open circuit time constant, seconds;

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- K. T'qo Quadrature axis transient open circuit time constant, seconds;
- I. T"do Direct axis subtransient open circuit time constant, seconds;
- m. T"qo Quadrature axis subtransient open circuit time constant, seconds;
- n. S(1.0) Saturation factor at rated terminal voltage; and
- o. S(1.2) Saturation factor at 1.2 per unit of rated terminal voltage;
- 10. Excitation system modeling information with reference to standard types as specified in PTI PSS/E model library:
 - a. Type (static, ac rotating, etc.);
 - b. Maximum/Minimum dc current;
 - c. Maximum/Minimum de voltage;
 - d. Nameplate information;
 - e. Block diagram with control parameter settings; and
 - f. Power System Stabilizer (PSS) type and settings;
- 11. Speed governor information with detailed modeling information with reference to standard types as specified in PTI PSS/E model library for each turbine:
 - a. Turbine type (hydro, thermal, wind);
 - b. Total capacity, MW (available peak operation rating);
 - c. Number of stages;
 - d. Manufacturer and model, if known;
 - e. Frequency vs. time operational limits, seconds at Hz;
 - f. Maximum turbine ramping rates, MW/minute, ramp up and ramp down;

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- (c) Generator Data, Asynchronous Machines
 The Transmission Provider may require the following data for each different generator assembly:
 - 1. Shunt reactive compensation devices for power factor correction with induction generators or converters:
 - a. Power Factor without compensation;
 - b. Power Factor with full compensation;
 - c. Reactive power of shunt compensation voltage, kVar; and
 - d. Type and model (if required) of shunt compensation device.
 - 2. AC/DC Converter devices employed with certain types of induction motor installations or with DC sources.
 - a. Number of converters;
 - b. Nominal ac voltage, kV;
 - c. Capability to supply or absorb reactive power, MVAR;
 - d. Converter manufacturer, model name, number, version; and
 - e. Rated/Limitation on Fault current contribution, kA.
 - 3. Machine parameters:
 - a. Sb Power base (MVA) upon which machine data is specified;
 - b. H Total inertia constant of generator and turbine, MWs/ MVA;
 - c. Ra Armature resistance, pu;
 - d. Xd Direct axis saturated and unsaturated synchronous reactance, pu;
 - e. X'd Direct axis saturated and unsaturated transient reactance, pu;
 - f. X"d Direct axis saturated and unsaturated subtransient reactance, pu;
 - g. XI Stator leakage reactance, pu;

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- h. T'do Direct axis transient open circuit time constant, seconds;
- T"do Direct axis subtransient open circuit time constant, seconds;
- j. S(1.0) Saturation factor at rated terminal voltage, A/A;
- k. S(1.2) Saturation factor at 1.2 per unit of rated terminal voltage, A/A;
- I. Vt Voltage threshold for tripping, pu;
- m. Vr Voltage at which reconnection is permitted, pu;
- n. Tv Pickup time for voltage-based tripping, seconds;
- o. Tvr Time delay for reconnection, seconds;
- p. Ft Frequency threshold for tripping, Hz;
- q. Tf Pickup time for frequency-based tripping, seconds;
- r. Reactive power required at no load, MVAR; and
- s. Reactive power required at full load, MVAR.
- 4. External Shunt Compensation:
 - a. Bus Voltage;
 - b. Number and rating of each shunt capacitor section; and
 - c. Voltage/PF controller scheme description and time delays.

2.3 Load Information Requirements

The Transmission Provider may require the following information regarding the plant load:

- (a) Delivery voltage, kV;
- (b) Power factor;
- (c) Transformer data including high and low voltage levels and impedances.

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2.4 Transformer Data

If one or more power transformers are included as part of the proposed connection, the Transmission Provider may require the following data for each unique transformer:

- (a) Transformer number or identifier;
- (b) Number of similar transformers;
- (c) Transformer type and number of windings, (e.g. two winding);
- (d) Transformer winding data. For a two winding transformer, only winding H and L data is required.
 - 1. For each winding, H, L, y: (y=tertiary):
 - a. Nominal voltage, kV; and
 - b. Configuration (Δ or Y) and Y winding connection (ungrounded, solid ground or impedance ground).
 - 2. Transformer MVA ratings:
 - a. Winding H, MVA;
 - b. Winding L, MVA; and
 - c. Winding y, MVA.
 - 3. Transformer impedances, positive and zero sequence:
 - a. Winding H to L, % X and R at MVA;
 - b. Winding H to Y, % X and R at MVA; and
 - c. Winding L to Y, % X and R at MVA.
 - 4. Transformer tap changer information:
 - a. No load or load;
 - b. Tap changer winding location, H, L, Y; and
 - c. Available taps.
 - 5. Transformer cooling requirements if required from <u>BCTCBC Hydro</u>:
 - a. Load, amps; and

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b. Voltage, single or three phase, volts.

2.5 Transmission Line / Cable Data

If a new transmission line or cable is to be included as part of the proposed connection, the Transmission Provider may require the following data:

- (a) Nominal operating voltage, kV;
- (b) Line length, km and routes shown in map;
- (c) Line capacity, amps at °C;
- (d) Overhead/underground construction including conductor type; and
- (e) Positive and zero sequence transmission line data in physical units:
 - 1. Series resistance, R Ω ;
 - 2. Series reactance, X Ω ; and
 - 3. Shunt susceptance, B μ S (or $\mu \Omega 1$).

3. Plant Data

The Transmission Provider may require the following information regarding the plant.

- (a) Plant designation;
- Maximum inject Power (Facility Interconnection Capacity) into the Transmission Provider system;
- (c) Contracted capacity to BC Hydro (if applicable);
- (d) Total Plant generating capacity;
- (e) Total number of generators in the Plant;
- (f) Total number of generator transformers in the Plant;
- (g) Total Plant Load (MW);
- (h) Total Plant Load (MVar);
- (i) Total Plant Motor Load;

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- (j) Total Plant Static Load;
- (k) Total Plant Static Load power factor;
- (I) Total Plant Reactive compensation;
- (m) Ground Grid resistance;
- (n) Plant restoration time immediately following a self restoring fault or upset on the transmission line;
- (o) Bus length from generation to interconnection station;
- (p) Line length from interconnection station to Transmission Provider's transmission line;
- (q) Tower number observed in the field and painted on tower leg;
- (r) Number of third party easements required for transmission lines;
- (s) Black Start Capability (yes/no);
- (t) Is the Generating Facility in the Transmission Provider's service area (yes/no);
 - 1. If no, provide name of Local Provider
- (u) Maximum Summer plant output;
- (v) Maximum Winter plant output;
- (w) Maximum Spring plant output.

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APPENDIX 2 to SGIP

Interconnection Feasibility 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 TRANSMISSION CORPORATION HYDRO AND POWER

<u>AUTHORITY</u>, 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; and

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

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

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- 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 Feasibility Study consistent with Section 6 of the SGIP.
- 3. The scope of the Interconnection Feasibility Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4. The Interconnection Feasibility Study shall be based on the technical information provided by Interconnection Customer in the Interconnection Request, as may be modified as the result of the Scoping Meeting. 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 Feasibility Study and as designated in accordance with Section 3.3.4 of the SGIP. If, after the designation of the Point of Interconnection pursuant to Section 3.3.4 of the SGIP, Interconnection Customer modifies its Interconnection Request pursuant to Section 4.4, the time to complete the Interconnection Feasibility Study may be extended.
- 5. The Interconnection Feasibility Study report shall provide the following information:
 - (a) preliminary identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;
 - (b) preliminary identification of any thermal overload or voltage limit violations resulting from the interconnection; and

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- (c) preliminary description and non-binding estimated cost of facilities required to interconnect the proposed or modified Generating Facility to the Transmission System and to address the identified short circuit and power flow issues.
- 6. Interconnection Customer shall provide a deposit of \$15,000 for the performance of the Interconnection Feasibility Study.

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

IN WITNESS WHEREOF, 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 TRANSMISSION CORPORATION HYDRO AND POWER AUTHORITY

Ву:		
Title:		
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Date: _____

[Insert name of Interconnection Customer]

Ву:_____

Title:

Date:

Order No.: G 102 09

Issued by: Janet L. Fraser, Director Regulatory Affairs

Accepted Date:

Effective Date: 21 October 2009

BCUC Secretary: ACCEPTED:

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> Attachment A to Appendix 2 Interconnection Feasibility Study Agreement

ASSUMPTIONS USED IN CONDUCTING THE INTERCONNECTION FEASIBILITY STUDY

The Interconnection Feasibility Study will be based upon the information set forth in the Interconnection Request and agreed upon in the Scoping Meeting held on

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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APPENDIX 3 to SGIP

<u>–</u>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 TRANSMISSION CORPORATION 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

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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 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.

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COMMISSION SECRETARY

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- 5. The Interconnection System Impact Study report shall provide the following information:
 - identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;
 - (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].

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

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Interconnection Facilities Study consistent with Section 8 of the SGIP to be performed in accordance with the Tariff.

- 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 a 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.

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

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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 TRANSMISSION CORPORATION HYDRO AND POWER AUTHORITY

Ву:	
Title:	
Date:	
Insert name of Interconnection Customer]	
Ву:	
Title:	
Date:	
- By:	

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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:

- 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 +/- 10 percent cost estimate contained in the report.

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> Attachment C to Appendix 3 Combined Study Agreement

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*:

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* To be completed in coordination with Transmission Provider.	
---	--

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

YesNo Lo	ocal provider:
Please provide proposed sched	ule dates:
Begin Construction	Date:
Generator step-up transformer	
receives back feed power	Date
Generation Testing	Date:
Commercial Operation	Date:

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APPENDIX 4 to SGIP

_Optional Interconnection 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 TRANSMISSION CORPORATION 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 _____;

WHEREAS, Interconnection Customer is proposing to establish an interconnection with the Transmission System; and

WHEREAS, Interconnection Customer has submitted to Transmission Provider an Interconnection Request; and

WHEREAS, Interconnection Customer has further requested that Transmission Provider prepare an Optional Interconnection Study;

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

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COMMISSION SECRETARY

- 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 Optional Interconnection Study consistent with Section 10 of the SGIP.
- 3. The scope of the Optional Interconnection Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4. The Optional Interconnection Study shall be performed solely for informational purposes.
- 5. The Optional Interconnection Study report shall provide a sensitivity analysis based on the assumptions specified by Interconnection Customer in Attachment A to this Agreement. The Optional Interconnection Study will identify Transmission Provider's Interconnection Facilities and the Network Upgrades, and the estimated cost thereof, that may be required to provide transmission service or interconnection service based upon the assumptions specified by Interconnection Customer in Attachment A.
- Interconnection Customer shall provide a deposit of \$15,000 for the performance of the Optional Interconnection Study. Transmission Provider's good faith estimate for the time of completion of the Optional Interconnection Study is [insert date].

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

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

 Miscellaneous. The Optional Interconnection Study Agreement shall include standard miscellaneous terms including, but not limited to, indemnities, representations,

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disclaimers, warranties, governing law, amendment, execution, waiver, enforceability and assignment, that reflect best practices in the electric industry, and 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 WHEREOF, 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 TRANSMISSION CORPORATION HYDRO AND POWER AUTHORITY

Ву:	
Title:	
Date:	
Insert name of Interconnection Customer]	
Ву:	
Title:	
Date:	
- By:	

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> Attachment A to Appendix 4 Optional Interconnection Study Agreement

ASSUMPTIONS USED IN CONDUCTING THE OPTIONAL INTERCONNECTION STUDY

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APPENDIX 5 to SGIP

<u>—</u>Standard Generator Interconnection Agreement (SGIA)

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THIS STANDARD GENERATOR INTERCONNECTION AGREEMENT (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 TRANSMISSION CORPORATIONHYDRO AND <u>POWER AUTHORITY</u>, a British Columbia Crown corporation organized established and 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, Transmission Provider operates the Transmission System; and

WHEREAS, Interconnection Customer intends to own, lease and/or control and operate the Generating Facility identified as a Generating Facility in Appendix C to this Agreement; and,

WHEREAS, Interconnection Customer and Transmission Provider have agreed to enter into this Agreement for the purpose of interconnecting the Generating Facility with the Transmission System;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein, it is agreed:

When used in this Standard Generator Interconnection Agreement, terms with initial capitalization that are not defined in Article 1 shall have the meanings specified in the Article in which they are used or the Tariff.

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Article 1. Definitions

Affected System shall mean an electric system other than the Transmission Provider's Transmission System that may be affected by the proposed interconnection.

Affiliate shall mean, with respect to a corporation, partnership or other entity, each such other corporation, partnership or other entity that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such corporation, partnership or other entity.

Ancillary Services shall mean those services that are necessary to support the transmission of capacity and energy from resources to loads while maintaining reliable operation of the Transmission Provider's Transmission System in accordance with Good Utility Practice.

Applicable Laws and Regulations shall mean all duly promulgated applicable federal, provincial and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority.

Applicable Reliability Council shall mean the reliability council(s) applicable to the Transmission System.

Applicable Reliability Standards shall mean the requirements and guidelines of NERC, WECC, the Applicable Reliability Council reliability standards and procedures adopted by the Commission in British Columbia, to the extent that those standards and procedures apply to the Interconnection Customer, and the Control Area of the Transmission System.

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Base Case shall mean the base case power flow, short circuit, and stability data bases used for the Interconnection Studies.

Breach shall mean the failure of a Party to perform or observe any material term or condition of this Standard Generator Interconnection Agreement.

Breaching Party shall mean a Party that is in Breach.

Business Day shall mean Monday through Friday, excluding Holidays.

Calendar Day shall mean any day including Saturday, Sunday or a Holiday.

Combined Study Agreement shall mean the Combined Study Agreement dated <*> between Interconnection Customer and Transmission Provider in respect of the Generating Facility.

Commercial Operation shall mean the status of a Generating Facility that has commenced generating electricity for sale, excluding electricity generated during Trial Operation.

Commercial Operation Date of a unit shall mean the date on which the Generating Facility commences Commercial Operation as confirmed by Interconnection Customer pursuant to Appendix D to this Standard Generator Interconnection Agreement.

Commission means the British Columbia Utilities Commission, or its successor.

Confidential Information shall mean any confidential, proprietary or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy or compilation relating to the present or planned business of a Party, which is

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designated as confidential by the Party supplying the information, whether conveyed orally, electronically, in writing, through inspection, or otherwise.

Control Area shall mean an electrical system or systems bounded by interconnection metering and telemetry, capable of controlling generation to maintain its interchange schedule with other Control Areas and contributing to frequency regulation of the interconnection. A Control Area must be certified by the Applicable Reliability Council The Control Area is the Balancing Authority Area as defined in the Applicable Reliability Standards.

Default shall mean the failure of a Breaching Party to cure its Breach in accordance with Article 17 of this Standard Generator Interconnection Agreement.

Dispute Resolution shall mean the procedure for resolution of a dispute between the Parties as set out in Appendix G to the SGIA.

Effective Date shall mean, subject to Article 18.4, the date on which this Standard Generator Interconnection Agreement becomes effective upon execution by the Parties subject to acceptance by the Commission (if applicable), or if filed unexecuted, upon the date specified by the Commission.

Emergency Condition shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of a Transmission Provider, is imminently likely (as determined in a nondiscriminatory manner) to cause a material adverse effect on the security of, or damage to Transmission Provider's Transmission System, Transmission Provider's Interconnection Facilities or the electric systems of others to which the Transmission Provider's Transmission System is directly connected; or (3) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory

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manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided, that Interconnection Customer is not obligated by this Standard Generator Interconnection Agreement to possess black start capability.

Energy Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to connect its Generating Facility to the Transmission Provider's Transmission System to be eligible to deliver the Generating Facility's electric output using the existing firm or non-firm capacity of the Transmission Provider's Transmission System on an as available basis. Energy Resource Interconnection Service in and of itself does not convey transmission service.

Environmental Law shall mean Applicable Laws or Regulations relating to pollution or protection of the environment or natural resources.

Force Majeure shall mean any act of God, labour disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure event does not include acts of negligence or intentional wrongdoing by the Party claiming Force Majeure.

Generating Facility shall mean Interconnection Customer's device for the production of electricity identified in Appendix C, but shall not include the Interconnection Customer's Interconnection Facilities.

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Generating Facility Capacity shall mean the net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple energy production devices.

Good Utility Practice shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

Governmental Authority shall mean any federal, provincial, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power; provided, however, that such term does not include Interconnection Customer, Transmission Provider, or any Affiliate thereof.

Hazardous Substances shall mean any chemicals, materials or substances defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "hazardous constituents," "restricted hazardous materials," "extremely hazardous substances," "toxic substances," "radioactive substances," "contaminants," "pollutants," "toxic pollutants" or words of similar meaning and regulatory effect under any applicable Environmental Law, or any other chemical, material or substance,

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exposure to which is prohibited, limited or regulated by any applicable Environmental Law.

Holiday shall mean a statutory holiday in British Columbia.

Initial Synchronization Date shall mean the date upon which the Generating Facility is initially synchronized and upon which Trial Operation begins.

In-Service Date shall mean the date upon which the Interconnection Customer reasonably expects it will be ready to begin use of the Transmission Provider's Interconnection Facilities to obtain back feed power.

Interconnection Customer's Interconnection Facilities shall mean all facilities and equipment, as identified in Appendix A of this Standard Generator Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Customer's Interconnection Facilities are sole use facilities.

Interconnection Facilities shall mean the Transmission Provider's Interconnection Facilities and the Interconnection Customer's Interconnection Facilities. Collectively, Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Transmission Provider's Transmission System. Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

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Interconnection Facilities Study shall mean the Interconnection Facilities Study dated <*> in respect of the Generating Facility.

Interconnection Feasibility Study shall mean the Interconnection Feasibility Study dated <*> in respect of the Generating Facility.

Interconnection Request shall mean an Interconnection Customer's request, in the form of Appendix 1 to the Standard Generator Interconnection Procedures, in accordance with the Tariff, in respect of the Generating Facility.

Interconnection Service shall mean the service provided by the Transmission Provider associated with interconnecting the Interconnection Customer's Generating Facility to the Transmission Provider's Transmission System and enabling it to receive electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of this Standard Generator Interconnection Agreement and, if applicable, the Transmission Provider's Tariff.

Joint Operating Committee shall be a group made up of representatives from Interconnection Customers and the Transmission Provider to coordinate operating and technical considerations of Interconnection Service.

Loss shall mean any and all losses relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's performance, or non-performance of its obligations under this Standard Generator Interconnection Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnifying Party.

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Material Modification shall mean those modifications that have a material impact on the cost or timing of any Interconnection Request with a later queue priority date or that would affect the reliability or stability of the Transmission System.

Metering Equipment shall mean all metering equipment installed or to be installed pursuant to this Standard Generator Interconnection Agreement at the metering points specified in Appendix A, including but not limited to instrument transformers, MWhmeters, data acquisition equipment, transducers, remote terminal unit, communications equipment, phone lines, and fibre optics.

NERC shall mean the North American Electric Reliability Council or its successor organization.

Network Customer shall have the meaning provided in the Tariff.

Network Resource shall have the meaning provided in the Tariff.

Network Resource Interconnection Service shall mean an Interconnection Service that allows the Interconnection Customer to integrate its Generating Facility with the Transmission Provider's Transmission System in the same manner as Network Resources. Network Resource Interconnection Service in and of itself does not convey transmission service.

Network Upgrades shall mean the additions, modifications, and upgrades to the Transmission Provider's Transmission System required at or beyond the Point of Interconnection to accommodate the interconnection of the Generating Facility to the Transmission Provider's Transmission System.

Operating Orders means those operating instructions, protocols and procedures developed by the Joint Operating Committee pursuant to Article 29.1.6.

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Party shall mean Transmission Provider or Interconnection Customer, and **Parties** shall mean both of them.

Point of Change of Ownership shall mean the point, as set forth in Appendix A to this Standard Generator Interconnection Agreement, where the Interconnection Customer's Interconnection Facilities connect to the Transmission Provider's Interconnection Facilities.

Point of Interconnection shall mean the point, as set forth in Appendix A to this Standard Generator Interconnection Agreement, where the Interconnection Facilities connect to the Transmission Provider's Transmission System.

Reasonable Efforts shall mean, with respect to an action required to be attempted or taken by a Party under this Standard Generator Interconnection Agreement, efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

Reliability Management System (RMS) Provisions shall mean the provisions contained in Appendix F to the SGIA as prescribed by the Transmission Provider's Reliability Management System Agreement with WECC...

Stand Alone Network Upgrades shall mean Network Upgrades that an Interconnection Customer may construct without affecting day-to-day operations of the Transmission System during their construction. Both the Transmission Provider and the Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify them in Appendix A to this Standard Generator Interconnection Agreement.

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Standard Generator Interconnection Agreement (SGIA) shall mean the form of interconnection agreement applicable to an Interconnection Request pertaining to a Generating Facility, that is included in the Transmission Provider's Tariff.

Standard Generator Interconnection Procedures (SGIP) shall mean the interconnection procedures applicable to an Interconnection Request pertaining to a Generating Facility that are included in the Transmission Provider's Tariff.

System Protection Facilities shall mean the equipment, including necessary protection signal communications equipment, required to protect (1) the Transmission Provider's Transmission System from faults or other electrical disturbances occurring at the Generating Facility and (2) the Generating Facility from faults or other electrical system disturbances occurring on the Transmission Provider's Transmission System or on other delivery systems or other generating systems to which the Transmission Provider's Transmission System is directly connected.

Tariff shall mean the Transmission Provider's Tariff through which open access transmission service and Interconnection Service are offered, as filed with the Commission, and as amended or supplemented from time to time, or any successor tariff.

Technical Interconnection Requirements means the "69-60 kV to 500 kV Interconnection Requirements for Power Generators" British Columbia Transmission Corporation<u>BC Hydro</u>, May 2004, as amended from time to time.

Transmission Owner shall mean the British Columbia Hydro and Power Authority.

Transmission Provider's Interconnection Facilities (TPIF) shall mean all facilities and equipment owned, controlled or operated by the Transmission Provider from the

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Point of Change of Ownership to the Point of Interconnection as identified in Appendix A to this Standard Generator Interconnection Agreement, including any modifications, additions or upgrades to such facilities and equipment. Transmission Provider's Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

Transmission System shall mean the facilities owned, controlled or operated by the Transmission Provider that are used to provide transmission service under the Tariff.

Trial Operation shall mean the period during which Interconnection Customer is engaged in on-site test operations and commissioning of the Generating Facility prior to Commercial Operation.

WECC shall mean Western Electricity Coordinating Council, or any successor organization.

Article 2. Effective Date, Term and Termination

2.1 Effective Date

Subject to Article 18.4, this This SGIA shall become effective upon execution by the Parties subject to acceptance by the Commission (if applicable), or if filed unexecuted, upon the date specified by the Commission. Transmission Provider shall promptly file this SGIA with the Commission upon execution in accordance with Article 3.1, if required.

2.2 Term of Agreement

Subject to the provisions of Article 2.3, this SGIA shall remain in effect for a period of ten (10) years from the Effective Date or such other longer period as Interconnection

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Customer may request and shall be automatically renewed for each successive oneyear period thereafter.

2.3 Termination Procedures

2.3.1 Written Notice

This SGIA may be terminated by Interconnection Customer after giving Transmission Provider ninety (90) Calendar Days advance written notice, or by Transmission Provider notifying the Commission after the Generating Facility permanently ceases Commercial Operation or fails to achieve Commercial Operation within three (3) years of the target date for Commercial Operation set out in Appendix B.

2.3.2 Default

Either Party may terminate this SGIA in accordance with Article 17.

2.3.3 Reserved

RMS Provisions

If Interconnection Customer elects to terminate its obligation to comply with the RMS Provisions as provided for in Section 2.9 of the RMS Provisions, Transmission Provider may at any time thereafter terminate this SGIA on five (5) Calendar Days advance written notice to Interconnection Customer.

2.3.4 Notwithstanding Articles 2.3.1 through 2.3.32, no termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination, including the filing with the Commission of a notice of termination of this SGIA, if required, which notice has been accepted for filing by the Commission.

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2.4 Termination Costs

If a Party elects to terminate this Agreement pursuant to Article 2.3 above, each Party shall pay all costs incurred (including any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment) or charges assessed by the other Party, as of the date of the other Party's receipt of such notice of termination, that are the responsibility of the terminating Party under this SGIA. In the event of termination by a Party, the Parties shall use commercially Reasonable Efforts to mitigate the costs, damages and charges arising as a consequence of termination. Upon termination of this SGIA, unless otherwise ordered or approved by the Commission:

2.4.1 With respect to any portion of Transmission Provider's Interconnection Facilities that have not yet been constructed or installed, Transmission Provider shall to the extent possible and with Interconnection Customer's authorization cancel any pending orders of, or return, any materials or equipment for, or contracts for construction of, such facilities; provided that in the event Interconnection Customer elects not to authorize such cancellation, Interconnection Customer shall assume all payment obligations with respect to such materials, equipment, and contracts, and Transmission Provider shall deliver such material and equipment, and, if necessary, assign such contracts, to Interconnection Customer as soon as practicable, at Interconnection Customer's expense. To the extent that Interconnection Customer has already paid Transmission Provider for any or all such costs of materials or equipment not taken by Interconnection Customer, Transmission Provider shall promptly refund such amounts to Interconnection Customer, less any costs, including penalties incurred by Transmission Provider to cancel any pending orders of or return such materials, equipment, or contracts.

If an Interconnection Customer terminates this SGIA, it shall be responsible for all costs incurred in association with that Interconnection Customer's interconnection, including

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any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment, and other expenses including any Network Upgrades for which Transmission Provider has incurred expenses and has not been reimbursed by Interconnection Customer.

- **2.4.2** Transmission Provider may, at its option, retain any portion of such materials, equipment, or facilities that Interconnection Customer chooses not to accept delivery of, in which case Transmission Provider shall be responsible for all costs associated with procuring such materials, equipment, or facilities.
- **2.4.3** With respect to any portion of the Interconnection Facilities, and any other facilities already installed or constructed pursuant to the terms of this SGIA, Interconnection Customer shall be responsible for all costs associated with the removal, relocation or other disposition or retirement of such materials, equipment, or facilities.

2.5 Disconnection

Upon termination of this SGIA, the Parties will take all appropriate steps to disconnect the Generating Facility from the Transmission System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this SGIA or such non-terminating Party otherwise is responsible for these costs under this SGIA.

2.6 Survival

This SGIA shall continue in effect after termination to the extent necessary to provide for final billings and payments and for costs incurred hereunder, including billings and payments pursuant to this SGIA; to permit the determination and enforcement of liability and indemnification obligations arising from acts or events that occurred while this SGIA

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was in effect; as provided in Article 11.4.2; and to permit each Party to have access to the lands of the other Party pursuant to this SGIA or other applicable agreements, to disconnect, remove or salvage its own facilities and equipment.

Article 3. Regulatory Filings

3.1 Filing

Transmission Provider shall file this SGIA (and any amendment hereto) with the appropriate Governmental Authority, if required. Interconnection Customer may request that any information so provided be subject to the confidentiality provisions of Article 22. If Interconnection Customer has executed this SGIA, or any amendment thereto, the Interconnection Customer shall reasonably cooperate with Transmission Provider with respect to such filing and to provide any information reasonably requested by Transmission Provider needed to comply with applicable regulatory requirements.

Article 4. Scope Of Service

4.1 Interconnection Product Options

Interconnection Customer has selected the following (checked) type of Interconnection Service:

4.1.1 Energy Resource Interconnection Service

4.1.1.1 The Product

Energy Resource Interconnection Service allows Interconnection Customer to connect the Generating Facility to the Transmission System and be eligible to deliver the Generating Facility's output using the existing firm or non-firm capacity of the

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Transmission System on an "as available" basis. To the extent Interconnection Customer wants to receive Energy Resource Interconnection Service, Transmission Provider shall construct facilities identified in Appendix A to this SGIA.

4.1.1.2 Transmission Delivery Service Implications

Under Energy Resource Interconnection Service, Interconnection Customer will be eligible to inject power from the Generating Facility into and deliver power across the interconnecting Transmission Provider's Transmission System on an "as available" basis up to the amount of MWs identified in the applicable stability and steady state studies to the extent the upgrades initially required to qualify for Energy Resource Interconnection Service have been constructed. No transmission delivery service from the Generating Facility is assured, but Interconnection Customer may obtain Point-to-Point Transmission Service, Network Integration Transmission Service, or be used for secondary network transmission service, pursuant to Transmission Provider's Tariff, up to the maximum output identified in the stability and steady state studies. In those instances, in order for Interconnection Customer to obtain the right to deliver or inject energy beyond the Generating Facility Point of Interconnection or to improve its ability to do so, transmission service must be obtained pursuant to the provisions of Transmission Provider's Tariff. The Interconnection Customer's ability to inject its Generating Facility output beyond the Point of Interconnection, therefore, will depend on the existing capacity of Transmission Provider's Transmission System at such time as a transmission service request is made that would accommodate such delivery. The provision of firm Point-to-Point Transmission Service or Network Integration Transmission Service may require the construction of additional Network Upgrades.

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4.1.2 Network Resource Interconnection Service

4.1.2.1 The Product

Transmission Provider must conduct the necessary studies and construct the Network Upgrades needed to integrate the Generating Facility in the same manner as all Network Resources. To the extent Interconnection Customer wants to receive Network Resource Interconnection Service, Transmission Provider shall construct the facilities identified in Appendix A to this SGIA.

4.1.2.2 Transmission Delivery Service Implications

Network Resource Interconnection Service allows Interconnection Customer's Generating Facility to be designated by any Network Customer under the Tariff on Transmission Provider's Transmission System as a Network Resource, up to the Generating Facility's full output, on the same basis as existing Network Resources interconnected to Transmission Provider's Transmission System, and to be studied as a Network Resource on the assumption that such a designation will occur. Although Network Resource Interconnection Service does not convey a reservation of transmission service, any Network Customer under the Tariff can utilize its network service under the Tariff to obtain delivery of energy from the Generating Facility in the same manner as it accesses other Network Resources. A Generating Facility receiving Network Resource Interconnection Service may also be used to provide Ancillary Services after technical studies and/or periodic analyses are performed with respect to the Generating Facility's ability to provide any applicable Ancillary Services, provided that such studies and analyses have been or would be required in connection with the provision of such Ancillary Services by any existing Network Resource. However, if an Interconnection Customer's Generating Facility has not been designated as a Network

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Resource by any load, it cannot be required to provide Ancillary Services except to the extent such requirements extend to all generating facilities that are similarly situated. The provision of Network Integration Transmission Service or firm Point-to-Point Transmission Service may require additional studies and the construction of additional upgrades. Because such studies and upgrades would be associated with a request for transmission service under the Tariff, cost responsibility for the studies and upgrades would be in accordance with Transmission Provider's Tariff for pricing transmission delivery services.

Network Resource Interconnection Service does not necessarily provide Interconnection Customer with the capability to physically deliver the output of its Generating Facility to any particular load on Transmission Provider's Transmission System without incurring congestion costs. In the event of transmission constraints on Transmission Provider's Transmission System, Interconnection Customer's Generating Facility shall be subject to the applicable congestion management procedures in Transmission Provider's Transmission System in the same manner as all other Network Resources.

There is no requirement either at the time of study or interconnection, or at any point in the future, that Interconnection Customer's Generating Facility be designated as a Network Resource by a Network Customer under the Tariff or that Interconnection Customer identify a specific buyer (or sink). To the extent a Network Customer does designate the Generating Facility as a Network Resource, it must do so pursuant to Transmission Provider's Tariff.

Once an Interconnection Customer satisfies the requirements for obtaining Network Resource Interconnection Service, any future transmission service request for delivery from the Generating Facility within Transmission Provider's Transmission System of any amount of capacity and/or energy, up to the amount initially studied, will not require that

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any additional studies be performed or that any further upgrades associated with such Generating Facility be undertaken, regardless of whether or not such Generating Facility is ever designated by a Network Customer as a Network Resource and regardless of changes in ownership of the Generating Facility. However, the reduction or elimination of congestion or redispatch costs may require additional studies and the construction of additional upgrades.

To the extent Interconnection Customer enters into an arrangement for long term transmission service for deliveries from the Generating Facility outside Transmission Provider's Transmission System, such request may require additional studies and upgrades in order for Transmission Provider to grant such request.

4.2 Provision of Service

Transmission Provider shall provide Interconnection Service for the Generating Facility at the Point of Interconnection.

4.3 Performance Standards

Each Party shall perform all of its obligations under this SGIA in accordance with Applicable Laws and Regulations, Applicable Reliability Standards, and Good Utility Practice, and to the extent a Party is required or prevented or limited in taking any action by such regulations and standards, such Party shall not be deemed to be in Breach of this SGIA for its compliance therewith. If such Party is the Transmission Provider, then that Party shall amend the SGIA and submit the amendment to the Commission for approval.

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4.4 No Transmission Service

The execution of this SGIA does not constitute a request for, nor the provision of, any transmission service under Transmission Provider's Tariff, and does not convey any right to deliver electricity to any specific customer or Point of Delivery.

4.5 Interconnection Customer Provided Services

The services provided by Interconnection Customer under this SGIA are set forth in Article 13.5.1. Interconnection Customer shall be paid for such services in accordance with Article 11.6.

Article 5. Interconnection Facilities Engineering, Procurements and Construction

5.1 Construction Timing

Unless otherwise mutually agreed to between the Parties, Interconnection Customer shall select the In-Service Date, Initial Synchronization Date, and target Commercial Operation Date. Such dates shall be set forth in Appendix B, Milestones.

5.1.1 Reserved

5.1.2 Agreement on Dates

5.1.2.1 If the dates designated by Interconnection Customer are acceptable to Transmission Provider, Transmission Provider shall so notify Interconnection Customer within thirty (30) Calendar Days, and Transmission Provider shall design, procure, and construct Transmission Provider's Interconnection Facilities and Network Upgrades, using Reasonable Efforts to complete Transmission Provider's Interconnection Facilities and Network Upgrades by the dates set forth in Appendix B, Milestones. Transmission

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Provider shall not be required to undertake any action which is inconsistent with its standard safety practices, its material and equipment specifications, its design criteria and construction procedures, its labour agreements, and Applicable Laws and Regulations. In the event Transmission Provider reasonably expects that it will not be able to complete Transmission Provider's Interconnection Facilities and Network Upgrades by the specified dates, Transmission Provider shall promptly provide written notice to Interconnection Customer and shall undertake Reasonable Efforts to meet the earliest dates thereafter.

- 5.1.2.2 If the dates designated by Interconnection Customer are not acceptable to Transmission Provider, Transmission Provider shall so notify Interconnection Customer within thirty (30) Calendar Days, and unless the Parties agree otherwise, Interconnection Customer shall have the option to assume responsibility for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades by the dates specified in Article 5.1. Transmission Provider and Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify such Stand Alone Network Upgrades in Appendix A. Except for Stand Alone Network Upgrades, Interconnection Customer shall have no right to construct Network Upgrades under this option.
- 5.1.2.3 If Interconnection Customer elects not to exercise its option under Article 5.1.2.2, Interconnection Customer shall so notify Transmission Provider within thirty (30) Calendar Days, and the Parties shall in good faith attempt to negotiate terms and conditions (including revisions of the specified dates, the provision of incentives or the procurement and construction of a portion of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades by Interconnection Customer) pursuant to which Transmission Provider is responsible for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Network

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Upgrades. If the Parties are unable to reach agreement on such terms and conditions, Transmission Provider shall assume responsibility for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Network Upgrades pursuant to Article 5.1.2.1.

5.2 General Conditions Applicable to Option to Build

If Interconnection Customer assumes responsibility for the design, procurement and construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades,

- Interconnection Customer shall engineer, procure equipment, and construct Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades (or portions thereof) using Good Utility Practice and using standards and specifications provided in advance by Transmission Provider;
- (2) Interconnection Customer's engineering, procurement and construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades shall comply with all Applicable Laws and Regulations to which Transmission Provider would be subject in the engineering, procurement or construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades;
- Transmission Provider shall review and approve the engineering design, equipment acceptance tests, and the construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades;
- prior to commencement of construction, Interconnection Customer shall provide to Transmission Provider a schedule for construction of Transmission Provider's

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Interconnection Facilities and Stand Alone Network Upgrades, and shall promptly respond to requests for information from Transmission Provider;

- (5) at any time during construction, Transmission Provider shall have the right to gain unrestricted access to Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades and to conduct inspections of the same;
- (6) at any time during construction, should any phase of the engineering, equipment procurement, or construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades not meet the standards and specifications provided by Transmission Provider, Interconnection Customer shall be obligated to remedy deficiencies in that portion of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades;
- (7) Interconnection Customer shall indemnify Transmission Provider for claims arising from Interconnection Customer's construction of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades under the terms and procedures applicable to Article 18.1 Indemnity;
- Interconnection Customer shall transfer control of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades to Transmission Provider;
- Unless Parties otherwise agree, Interconnection Customer shall transfer ownership of Transmission Provider's Interconnection Facilities and Stand-Alone Network Upgrades to Transmission Provider or its designee;
- (10) Transmission Provider shall approve and accept for operation and maintenanceTransmission Provider's Interconnection Facilities and Stand Alone Network

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Upgrades to the extent engineered, procured, and constructed in accordance with this Article 5.2; and

(11) Interconnection Customer shall deliver to Transmission Provider "as-built" drawings, information, and any other documents that are reasonably required by Transmission Provider to assure that the Interconnection Facilities and Stand-Alone Network Upgrades are built to the standards and specifications required by Transmission Provider.

5.3 Reserved

5.4 Power System Stabilizers

The Interconnection Customer shall procure, install, maintain and operate Power System Stabilizers in accordance with the <u>Applicable Reliability Standardsguidelines and</u> procedures established by the <u>Applicable Reliability Council and as required by the RMS</u> <u>Provisions.</u> Transmission Provider reserves the right to reasonably establish minimum acceptable settings for any installed Power System Stabilizers, subject to the design and operating limitations of the Generating Facility. If the Generating Facility's Power System Stabilizers are removed from service or not capable of automatic operation, Interconnection Customer shall immediately notify Transmission Provider's system operator, or its designated representative. The requirements of this paragraph shall not apply to wind generators.

5.5 Equipment Procurement

If responsibility for construction of Transmission Provider's Interconnection Facilities or Network Upgrades is to be borne by Transmission Provider, then Transmission Provider shall commence design of Transmission Provider's Interconnection Facilities or Network

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Upgrades and procure necessary equipment as soon as practicable after all of the following conditions are satisfied, unless the Parties otherwise agree in writing:

- 5.5.1 Transmission Provider has completed the Interconnection Facilities Study pursuant to the Combined Study Agreement;
- 5.5.2 Transmission Provider has received written authorization to proceed with design and procurement from Interconnection Customer by the date specified in Appendix B, Milestones; and
- 5.5.3 Interconnection Customer has provided security to Transmission Provider in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.

5.6 Construction Commencement

Transmission Provider shall commence construction of Transmission Provider's Interconnection Facilities and Network Upgrades for which it is responsible as soon as practicable after the following additional conditions are satisfied:

- 5.6.1 Approval of the appropriate Governmental Authority has been obtained for any facilities requiring regulatory approval;
- 5.6.2 Necessary real property rights and rights-of-way have been obtained, to the extent required for the construction of a discrete aspect of Transmission Provider's Interconnection Facilities and Network Upgrades;
- 5.6.3 Transmission Provider has received written authorization to proceed with construction from Interconnection Customer by the date specified in Appendix B, Milestones; and

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5.6.4 Interconnection Customer has provided security to Transmission Provider in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.

5.7 Work Progress

The Parties will keep each other advised periodically as to the progress of their respective design, procurement and construction efforts. Either Party may, at any time, request a progress report from the other Party. If, at any time, Interconnection Customer determines that the completion of Transmission Provider's Interconnection Facilities will not be required until after the specified In-Service Date, Interconnection Customer will provide written notice to Transmission Provider of such later date upon which the completion of Transmission Provider of such later date upon which the

5.8 Information Exchange

As soon as reasonably practicable after the Effective Date, the Parties shall exchange information regarding the design and compatibility of the Parties' Interconnection Facilities and compatibility of the Interconnection Facilities with Transmission Provider's Transmission System, and shall work diligently and in good faith to make any necessary design changes.

5.9 Limited Operation

If any of Transmission Provider's Interconnection Facilities or Network Upgrades are not reasonably expected to be completed prior to the Commercial Operation Date of the Generating Facility, Transmission Provider shall, upon the request and at the expense of Interconnection Customer, perform operating studies on a timely basis to determine the extent to which the Generating Facility and Interconnection Customer Interconnection Facilities may operate prior to the completion of Transmission Provider's Interconnection

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Facilities or Network Upgrades consistent with Applicable Laws and Regulations, Applicable Reliability Standards, Good Utility Practice, and this SGIA. Transmission Provider shall permit Interconnection Customer to operate the Generating Facility and Interconnection Customer Interconnection Facilities in accordance with the results of such studies.

5.10 Interconnection Customer's Interconnection Facilities (ICIF)

Interconnection Customer shall, at its expense, design, procure, construct, own and install the ICIF, as set forth in Appendix A, Interconnection Facilities and Network Upgrades.

5.10.1 Interconnection Customer's Interconnection Facility Specifications

Interconnection Customer shall submit initial specifications for the ICIF, including System Protection Facilities, to Transmission Provider at least one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date; and final specifications for review and comment at least ninety (90) Calendar Days prior to the Initial Synchronization Date. Transmission Provider shall review such specifications to ensure that the ICIF are compatible with the technical specifications (including the Technical Interconnection Requirements), operational control, and safety requirements of Transmission Provider and comment on such specifications within thirty (30) Calendar Days of Interconnection Customer's submission. All specifications provided hereunder shall be deemed Confidential Information.

5.10.2 Transmission Provider's Review

Transmission Provider's review of Interconnection Customer's final specifications shall not be construed as confirming, endorsing, or providing a warranty as to the design,

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fitness, safety, durability or reliability of the Generating Facility, or the ICIF. Interconnection Customer shall make such changes to the ICIF as may reasonably be required by Transmission Provider, in accordance with Good Utility Practice, to ensure that the ICIF are compatible with the technical specifications (including the Technical Interconnection Requirements), operational control, and safety requirements of Transmission Provider.

5.10.3 ICIF Construction

The ICIF shall be designed and constructed in accordance with Good Utility Practice. Within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Parties agree on another mutually acceptable deadline, Interconnection Customer shall deliver to Transmission Provider "as-built" drawings, information and documents for the ICIF, such as: a one-line diagram, a site plan showing the Generating Facility and the ICIF, plan and elevation drawings showing the layout of the ICIF, a relay functional diagram, relaying AC and DC schematic wiring diagrams and relay settings for all facilities associated with Interconnection Customer's step-up transformers, the facilities connecting the Generating Facility to the step-up transformers and the ICIF, and the impedances (determined by factory tests) for the associated step-up transformers and the Generating Facility. The Interconnection Customer shall provide Transmission Provider specifications for the excitation system, automatic voltage regulator, Generating Facility control and protection settings, transformer tap settings, and communications, if applicable.

5.11 Transmission Provider's Interconnection Facilities Construction

Transmission Provider's Interconnection Facilities shall be designed and constructed in accordance with Good Utility Practice. Upon request, and at Interconnection Customer's

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cost, within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Parties agree on another mutually acceptable deadline, Transmission Provider shall deliver to Interconnection Customer the following "as-built" drawings, information and documents for Transmission Provider's Interconnection Facilities [include appropriate drawings and relay diagrams].

Transmission Provider will obtain control of Transmission Provider's Interconnection Facilities and Stand Alone Network Upgrades upon completion of such facilities.

5.12 Access Rights

Upon reasonable notice and supervision by a Party, and subject to any required or necessary regulatory approvals, a Party (Granting Party) shall furnish at no cost to the other Party (Access Party) any rights of use, licenses, rights of way and easements with respect to lands owned or controlled by the Granting Party, its agents (if allowed under the applicable agency agreement), or any Affiliate, that are necessary to enable the Access Party to obtain ingress and egress to construct, operate, maintain, repair, test (or witness testing), inspect, replace or remove facilities and equipment to: (i) interconnect the Generating Facility with the Transmission System; (ii) operate and maintain the Generating Facility, the Interconnection Facilities and equipment upon termination of this SGIA. In exercising such licenses, rights of way and easements, the Access Party shall not unreasonably disrupt or interfere with normal operation of the Granting Party's business and shall adhere to the safety rules and procedures established in advance, as may be changed from time to time, by the Granting Party and provided to the Access Party.

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5.13 Lands of Other Property Owners

If any part of Transmission Provider's Interconnection Facilities and/or Network Upgrades is to be installed on property owned by persons other than Interconnection Customer or Transmission Provider, Transmission Provider shall at Interconnection Customer's expense use efforts, similar in nature and extent to those that it typically undertakes on its own behalf or on behalf of its Affiliates, and to the extent consistent with Applicable Laws and Regulations, to procure from such persons any rights of use, licenses, rights of way and easements that are necessary to construct, operate, maintain, test, inspect, replace or remove Transmission Provider's Interconnection Facilities and/or Network Upgrades upon such property.

5.14 Permits

Each Party shall be responsible for obtaining all permits, licenses and authorizations that are necessary for it to accomplish the matters it is obligated to complete hereunder in compliance with Applicable Laws and Regulations. Transmission Provider and Interconnection Customer shall cooperate with each other in good faith in obtaining any such permits, licenses and authorizations. With respect to this paragraph, Transmission Provider shall provide permitting assistance to Interconnection Customer comparable to that provided to Transmission Provider's own, or an Affiliate's, generation.

5.15 Early Construction of Base Case Facilities

Interconnection Customer may request Transmission Provider to construct, and Transmission Provider shall construct, using Reasonable Efforts to accommodate Interconnection Customer's In-Service Date, all or any portion of any Network Upgrades required for Interconnection Customer to be interconnected to the Transmission System which were included in the Base Case for the Interconnection Facilities Study, and which

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also are required to be constructed for another Interconnection Customer, but where such construction is not scheduled to be completed in time to achieve Interconnection Customer's In-Service Date.

5.16 Suspension

Interconnection Customer reserves the right, upon written notice to Transmission Provider, to suspend at any time all work by Transmission Provider associated with the construction and installation of Transmission Provider's Interconnection Facilities and/or Network Upgrades required under this SGIA with the condition that Transmission System shall be left in a safe and reliable condition in accordance with Good Utility Practice and Transmission Provider's safety and reliability criteria. In such event, Interconnection Customer shall be responsible for all reasonable and necessary costs which Transmission Provider (i) has incurred pursuant to this SGIA prior to the suspension and (ii) incurs in suspending such work, including any costs incurred to perform such work as may be necessary to ensure the safety of persons and property and the integrity of the Transmission System during such suspension and, if applicable, any costs incurred in connection with the cancellation or suspension of material, equipment and labour contracts which Transmission Provider cannot reasonably avoid; provided, however, that prior to cancelling or suspending any such material, equipment or labour contract. Transmission Provider shall obtain Interconnection Customer's authorization to do so.

Transmission Provider shall invoice Interconnection Customer for such costs, plus any applicable taxes, pursuant to Article 12 and shall use due diligence to minimize its costs. In the event Interconnection Customer suspends work by Transmission Provider required under this SGIA pursuant to this Article 5.16, and has not requested Transmission Provider to recommence the work required under this SGIA on or before

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the expiration of three (3) years following commencement of such suspension, this SGIA shall be deemed terminated. The three-year period shall begin on the date the suspension is requested, or the date of the written notice to Transmission Provider, if no effective date is specified.

5.17 Tax Indemnity

Interconnection Customer shall protect, indemnify and hold harmless Transmission Provider from the cost consequences of any current tax liability imposed against Transmission Provider as a result of payments or property transfers made by Interconnection Customer to Transmission Provider under this SGIA, as well as any interest and penalties, other than interest and penalties attributable to any delay caused by Transmission Provider.

5.18 Tax Status

Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this SGIA is intended to adversely affect Transmission Provider's tax exempt status.

5.19 Modification

5.19.1 General

Either Party may undertake modifications to its facilities. If a Party plans to undertake a modification that reasonably may be expected to affect the other Party's facilities, that Party shall provide to the other Party sufficient information regarding such modification so that the other Party may evaluate the potential impact of such modification prior to commencement of the work. Such information shall be deemed to be confidential hereunder and shall include information concerning the timing of such modifications and

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whether such modifications are expected to interrupt the flow of electricity from the Generating Facility. The Party desiring to perform such work shall provide the relevant drawings, plans, and specifications to the other Party at least ninety (90) Calendar Days in advance of the commencement of the work or such shorter period upon which the Parties may agree, which agreement shall not unreasonably be withheld, conditioned or delayed.

In the case of Generating Facility modifications that do not require Interconnection Customer to submit an Interconnection Request, Transmission Provider shall provide, within thirty (30) Calendar Days (or such other time as the Parties may agree), an estimate of any additional modifications to the Transmission System, Transmission Provider's Interconnection Facilities or Network Upgrades necessitated by such Interconnection Customer modification and a good faith estimate of the costs thereof.

5.19.2 Standards

Any additions, modifications, or replacements made to a Party's facilities shall be designed, constructed and operated in accordance with this SGIA and Good Utility Practice.

5.19.3 Modification Costs

Interconnection Customer shall not be directly assigned for the costs of any additions, modifications, or replacements that Transmission Provider makes to Transmission Provider's Interconnection Facilities or the Transmission System to facilitate the interconnection of a third party to Transmission Provider's Interconnection Facilities or the Transmission System, or to provide transmission service to a third party under Transmission Provider's Tariff. Interconnection Customer shall be responsible for the costs of any additions, modifications, or replacements to Interconnection Customer's

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Interconnection Facilities that may be necessary to maintain or upgrade such Interconnection Customer's Interconnection Facilities consistent with Applicable Laws and Regulations, Applicable Reliability Standards or Good Utility Practice.

- Article 6. Reserved
- Article 7. Reserved
- Article 8. Communications
- 8.1 Reserved
- 8.2 Reserved

8.3 No Annexation

Any and all equipment placed on the premises of a Party shall be and remain the property of the Party providing such equipment regardless of the mode and manner of annexation or attachment to real property, unless otherwise mutually agreed by the Parties.

Article 9. Operations

9.1 General

Each Party shall comply with the Applicable Reliability Standards. Each Party shall provide to the other Party all information that may reasonably be required by the other Party to comply with Applicable Laws and Regulations and Applicable Reliability Standards. Subject to Section 2.9 of the RMS Provisions, the Generator shall comply with the RMS Provisions.

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9.2 Reserved

9.3 Transmission Provider Obligations

Transmission Provider shall cause the Transmission System and Transmission Provider's Interconnection Facilities to be operated, maintained and controlled in a safe and reliable manner and in accordance with all Operating Orders and this SGIA. Transmission Provider may provide to Interconnection Customer, and Interconnection Customer will comply with, operating instructions consistent with this SGIA and Transmission Provider's operating protocols and procedures as they may change from time to time. Transmission Provider will consider changes to its operating protocols and procedures proposed by Interconnection Customer.

9.4 Interconnection Customer Obligations

Interconnection Customer shall at its own expense operate, maintain and control the Generating Facility and Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this SGIA and the Technical Interconnection Requirements. Interconnection Customer shall operate the Generating Facility and Interconnection Customer's Interconnection Facilities in accordance with all Operating Orders and applicable requirements of the Control Area of which it is part, as such requirements are set forth in Appendix C, Interconnection Details, of this SGIA. Appendix C, Interconnection Details, will be modified to reflect changes to the requirements as they may change from time to time. Either Party may request that the other Party provide copies of the requirements set forth in Appendix C, Interconnection Details, of this SGIA.

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9.5 Start-Up and Synchronization

Consistent with the Parties' mutually acceptable procedures, Interconnection Customer is responsible for the proper synchronization of the Generating Facility to Transmission Provider's Transmission System.

9.6 Reserved

9.7 Outages and Interruptions

9.7.1 Outages

9.7.1.1 Outage Authority and Coordination

In accordance with Good Utility Practice and in coordination with the other Party, the Interconnection Customer may remove the Interconnection Customer's Interconnection Facilities, and the Transmission Provider may remove the Transmission Provider's Interconnection Facilities or any part of the Transmission System, from service that may impact the other Party's facilities as necessary to perform maintenance or testing or to install or replace equipment. Absent an Emergency Condition, the Party scheduling a removal of such facility(ies) from service will use Reasonable Efforts to schedule such removal on a date and time mutually acceptable to the Parties. In all circumstances any Party planning to remove such facility(ies) from service shall use Reasonable Efforts to minimize the effect on the other Party of such removal. Neither Party shall be liable to the other for damages of any kind in connection with any such outage.

9.7.1.2 Outage Schedules

Transmission Provider shall post scheduled outages of its transmission facilities on the OASIS. Interconnection Customer shall submit its planned maintenance schedules for

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the Generating Facility to Transmission Provider for a minimum of a rolling twenty-four month period. Interconnection Customer shall update its planned maintenance schedules as necessary. Transmission Provider may request Interconnection Customer to reschedule its maintenance as necessary to maintain the reliability of the Transmission System; provided, however, adequacy of generation supply shall not be a criterion in determining Transmission System reliability. Transmission Provider shall compensate Interconnection Customer for any additional direct costs that Interconnection Customer incurs as a result of having to reschedule maintenance, including any additional overtime, breaking of maintenance contracts or other costs above and beyond the cost Interconnection Customer would have incurred absent Transmission Provider's request to reschedule maintenance. Interconnection Customer will not be eligible to receive compensation, if during the twelve (12) months prior to the date of the scheduled maintenance, Interconnection Customer had modified its schedule of maintenance activities.

9.7.1.3 Outage Restoration

If an outage of a Party's facility(ies) aversely affects the other Party's operations or facilities, the Party that owns or controls the facility(ies) that is out of service shall use Reasonable Efforts to promptly restore such facility(ies) to a normal operating condition consistent with the nature of the outage. The Party that owns or controls the facility that is out of service shall provide the other Party, to the extent such information is known, information on the nature of the Emergency Condition, an estimated time of restoration, and any corrective actions required. Initial verbal notice shall be followed up as soon as practicable with written notice explaining the nature of the outage.

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9.7.2 Interruption of Service

If required by Good Utility Practice to do so, Transmission Provider may require Interconnection Customer to interrupt or reduce deliveries of electricity if such delivery of electricity could adversely affect Transmission Provider's ability to perform such activities as are necessary to safely and reliably operate and maintain the Transmission System. The following provisions shall apply to any interruption or reduction permitted under this Article 9.7.2:

- 9.7.2.1 The interruption or reduction shall continue only for so long as reasonably necessary under Good Utility Practice;
- 9.7.2.2 Any such interruption or reduction shall be made on an equitable, non-discriminatory basis with respect to all generating facilities directly connected to the Transmission System;
- 9.7.2.3 When the interruption or reduction must be made under circumstances which do not allow for advance notice, Transmission Provider shall notify Interconnection Customer by telephone as soon as practicable of the reasons for the curtailment, interruption, or reduction, and, if known, its expected duration. Telephone notification shall be followed by written notification as soon as practicable;
- 9.7.2.4 Except during the existence of an Emergency Condition, during which the interruption or reduction can be scheduled without advance notice, Transmission Provider shall notify Interconnection Customer in advance regarding the timing of such scheduling and further notify Interconnection Customer of the expected duration. Transmission Provider shall coordinate with Interconnection Customer using Good Utility Practice to schedule the interruption or reduction during periods of least impact to Interconnection Customer and Transmission Provider;

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- 9.7.2.5 The Parties shall cooperate and coordinate with each other to the extent necessary in order to restore the Generating Facility, Interconnection Facilities, and the Transmission System to their normal operating state, consistent with system conditions and Good Utility Practice.
- 9.7.2.6 Neither Party shall be liable to the other for damages of any kind in connection with any such curtailment, interruption or reduction.

9.8 Switching and Tagging Rules

Each Party shall provide the other Party a copy of its switching and tagging rules that are applicable to the other Party's activities. Such switching and tagging rules shall be developed on a non-discriminatory basis. The Parties shall comply with applicable switching and tagging rules, as amended from time to time, in obtaining clearances for work or for switching operations on equipment.

9.9 Use of Interconnection Facilities by Third Parties

9.9.1 **Purpose of Interconnection Facility**

Except as may be required by Applicable Laws and Regulations, or as otherwise agreed to among the Parties, the Interconnection Facilities shall be constructed for the sole purpose of interconnecting the Generating Facility to the Transmission System and shall be used for no other purpose.

9.9.2 Third Party Users

If required by Applicable Laws and Regulations or if the Parties mutually agree, such agreement not to be unreasonably withheld, to allow one or more third parties to use Transmission Provider's Interconnection Facilities, or any part thereof, Interconnection

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Customer will be entitled to compensation for the capital expenses it incurred in connection with the Transmission Provider's Interconnection Facilities from all third party users based upon the pro rata use of the Transmission Provider's Interconnection Facilities by all third party users and Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually-agreed upon methodology. In addition, cost responsibility for ongoing costs, including operation and maintenance costs associated with the Transmission Provider's Interconnection Facilities, will be allocated between Interconnection Customer and any third party users based upon the pro rata use of the Interconnection Facilities by all third party users, and Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually agreed upon the pro rata use of the Interconnection Facilities by all third party users, and Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually agreed upon methodology. If the issue of such compensation or allocation cannot be resolved through such negotiations, it shall be submitted to the Commission for resolution.

9.10 Disturbance Analysis Data Exchange

The Parties will cooperate with one another in the analysis of disturbances to either the Generating Facility or Transmission Provider's Transmission System by gathering and providing access to any information relating to any disturbance, including information from oscillography, protective relay targets, breaker operations and sequence of events records, and any disturbance information required by Good Utility Practice.

Article 10. Maintenance

10.1 Transmission Provider Obligations

Transmission Provider shall maintain the Transmission System and Transmission Provider's Interconnection Facilities in a safe and reliable manner and in accordance with this SGIA.

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10.2 Interconnection Customer Obligations

Interconnection Customer shall maintain the Generating Facility and Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this SGIA.

10.3 Coordination

The Parties shall confer regularly to coordinate the planning, scheduling and performance of preventive and corrective maintenance on the Generating Facility and the Interconnection Facilities.

10.4 Secondary Systems

Each Party shall cooperate with the other in the inspection, maintenance, and testing of control or power circuits that operate below 600 volts, AC or DC, including, but not limited to, any hardware, control or protective devices, cables, conductors, electric raceways, secondary equipment panels, transducers, batteries, chargers, and voltage and current transformers that directly affect the operation of a Party's facilities and equipment which may reasonably be expected to impact the other Party. Each Party shall provide advance notice to the other Party before undertaking any work on such circuits, especially on electrical circuits involving circuit breaker trip and close contacts, current transformers, or potential transformers.

10.5 Operating and Maintenance Expenses

Subject to the provisions herein addressing the use of facilities by others, and except for operations and maintenance expenses associated with modifications made for providing interconnection or transmission service to a third party and such third party pays for such expenses, Interconnection Customer shall be responsible for all reasonable expenses

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including overheads, associated with: (1) owning, operating, maintaining, repairing, and replacing Interconnection Customer's Interconnection Facilities; and (2) operation, maintenance, repair and replacement of Transmission Provider's Interconnection Facilities.

Article 11. Performance Obligation

11.1 Interconnection Customer Interconnection Facilities

Interconnection Customer shall design, procure, construct, install, own and/or control Interconnection Customer Interconnection Facilities described in Appendix A, Interconnection Facilities and Network Upgrades, at its sole expense.

11.2 Transmission Provider's Interconnection Facilities

Transmission Provider shall design, procure, construct, install, own and/or control Transmission Provider's Interconnection Facilities described in Appendix A, Interconnection Facilities and Network Upgrades, at the sole expense of the Interconnection Customer and Interconnection Customer shall provide security for the costs of such TPIF in accordance with Article 11.5 of this Agreement.

11.3 Network Upgrades

Transmission Provider shall design, procure, construct-and, install, and Transmission Provider or Transmission Owner shall own the Network Upgrades described in Appendix A, Interconnection Facilities and Network Upgrades. Transmission Provider shall fund the costs for the Network Upgrades and Interconnection Customer shall provide security for the costs of such Network Upgrades in accordance with Article 11.5 of this Agreement.

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11.3.1 On the Commercial Operation Date, Interconnection Customer shall also provide security in accordance with Article 11.5 of this Agreement for any amounts that Transmission Provider is obligated to pay to third parties in accordance with provisions in other Standard Generator Interconnection Agreements similar to Article 11.4.2 of this Agreement as a result of the Generating Facility's use of network upgrades funded by such third parties.

11.4 Credits and Repayments

11.4.1 Reserved

11.4.2 Repayment on Failure to Achieve Commercial Operation

If the Generating Facility fails to achieve Commercial Operation, this Agreement is terminated, and another generating facility subsequently makes use of the Network Upgrades constructed pursuant to this Agreement, Transmission Provider shall at that time reimburse Interconnection Customer for the amounts collected on the security provided by Interconnection Customer pursuant to Section III.D.(b) and Section III.D.(c) of Attachment O of the Tariff, for those Network Upgrades used by the other generating facility, as reasonably determined by BCTC.BC Hydro. This Article 11.4.2 shall survive the termination of this Agreement.

11.4.3 Deferral Credits

Where Interconnection Customer satisfies the eligibility criteria set out in Attachment N to the Tariff, Interconnection Customer shall, in addition to any payments provided for in Article 11.4.2, be entitled to Deferral Credits against the non-usage sensitive portion of transmission charges as provided for in Attachment N to the Tariff.

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11.4.4 Other Rights

Notwithstanding any other provision of this SGIA, nothing herein shall be construed as relinquishing or foreclosing any rights, including but not limited to firm transmission rights, capacity rights, transmission congestion rights, or transmission credits, that Interconnection Customer, shall be entitled to, now or in the future under any other agreement or tariff as a result of, or otherwise associated with, the transmission capacity, if any, created by the Network Upgrades, including the right to obtain cash reimbursements or transmission credits for transmission service that is not associated with the Generating Facility.

11.5 **Provision of Security**

At least thirty (30) Calendar Days prior to the commencement of the design, procurement, installation, or construction of a discrete portion of Transmission Provider's Interconnection Facilities or the Network Upgrades, Interconnection Customer shall provide Transmission Provider a standby irrevocable letter of credit or other form of security that is reasonably acceptable to Transmission Provider and otherwise meets the requirements of Attachment O to the Tariff. Such security shall be granted in favour of Transmission Provider and Transmission Owner. The security shall be in an amount equal to the amount required by Article 11.3.1 of this Agreement plus an amount sufficient to cover the costs for designing, constructing, procuring and installing the applicable portion of the Network Upgrades and the Transmission Provider's Interconnection Facilities plus in respect of security for the TPIF taxes that would apply when Interconnection Customer is invoiced by Transmission Provider for such costs. The security for the TPIF shall be reduced from time to time to the extent the amount exceeds the Transmission Provider's good faith estimate of the remaining costs to complete the applicable portion of Transmission Provider's Interconnection Facilities

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plus taxes that would apply when Interconnection Customer is invoiced by Transmission Provider for such remaining costs.

11.6 Interconnection Customer Compensation

If Transmission Provider requests or directs Interconnection Customer to provide a service pursuant to Article 13.5.1 of this SGIA, Transmission Provider shall compensate Interconnection Customer in accordance with Interconnection Customer's applicable Commission-approved rate schedule in effect. Interconnection Customer shall serve Transmission Provider with any filing of a proposed rate schedule at the time of such filing with the Commission. To the extent that no rate schedule is in effect at the time the Interconnection Customer is required to provide or absorb any reactive power under this SGIA, Transmission Provider agrees to compensate Interconnection Customer in such amount as would have been due Interconnection Customer had the rate schedule been in effect at the time service commenced; provided, however, that such rate schedule must be filed at the Commission or other appropriate Governmental Authority within sixty (60) Calendar Days of the commencement of service.

11.6.1 Interconnection Customer Compensation for Actions During Emergency Condition

Transmission Provider shall compensate Interconnection Customer for its provision of real and reactive power and other Emergency Condition services that Interconnection Customer provides to support the Transmission System during an Emergency Condition in accordance with Article 11.6.

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Article 12. Invoice

12.1 General

Each Party may submit to the other Party, on a monthly basis, invoices of amounts due for the preceding month, plus any applicable taxes. Each invoice shall state the month to which the invoice applies and fully describe the services and equipment provided. The Parties may discharge mutual debts and payment obligations due and owing to each other on the same date through netting, in which case all amounts a Party owes to the other Party under this SGIA, including interest payments or credits, shall be netted so that only the net amount remaining due shall be paid by the owing Party.

12.2 Final Invoice

Within six months after completion of the construction of Transmission Provider's Interconnection Facilities, Transmission Provider shall provide an invoice of the final cost of the construction of Transmission Provider's Interconnection Facilities, plus any applicable taxes, and shall set forth such costs in sufficient detail to enable Interconnection Customer to compare the actual costs with the estimates and to ascertain deviations, if any, from the cost estimates. Transmission Provider shall refund to Interconnection Customer any amount by which the actual payment by Interconnection Customer for estimated costs exceeds the actual costs of construction within thirty (30) Calendar Days of the issuance of such final construction invoice.

12.3 Payment Invoices

Payment Invoices shall be rendered to the paying Party at the address specified in Appendix E. The Party receiving the invoice shall pay the invoice within thirty (30) Calendar Days of receipt. All payments shall be made in immediately available funds

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payable to the other Party, or by wire transfer to a bank named and account designated by the invoicing Party. Payment of invoices by either Party will not constitute a waiver of any rights or claims either Party may have under this SGIA.

12.4 Disputes

In the event of a billing dispute between Transmission Provider and Interconnection Customer, Transmission Provider shall continue to provide Interconnection Service under this SGIA as long as Interconnection Customer: (i) continues to make all payments not in dispute; and (ii) pays to Transmission Provider or into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If Interconnection Customer fails to meet these two requirements for continuation of service, then Transmission Provider may provide notice to Interconnection Customer of a Default pursuant to Article 17. Within thirty (30) Calendar Days after the resolution of the dispute, the Party that owes money to the other Party shall pay the amount due with interest which shall be calculated in accordance with the provisions in the Tariff.

Article 13. Emergencies

13.1 Definition

"Emergency Condition" shall mean a condition or situation: (i) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (ii) that, in the case of Transmission Provider, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to the Transmission System, Transmission Provider's Interconnection Facilities or the Transmission Systems of others to which the Transmission System is directly connected; or (iii) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to the Transmission Systems of others to which the Transmission System is directly connected; or (iii) that, in the case of Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the

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security of, or damage to, the Generating Facility or Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided, that Interconnection Customer is not obligated by this SGIA to possess black start capability.

13.2 Obligations

Each Party shall comply with the Emergency Condition procedures of the Applicable Reliability <u>CouncilStandards</u>, Applicable Laws and Regulations, and any emergency procedures agreed to by the Joint Operating Committee.

13.3 Notice

Transmission Provider shall notify Interconnection Customer promptly when it becomes aware of an Emergency Condition that affects Transmission Provider's Interconnection Facilities or the Transmission System that may reasonably be expected to affect Interconnection Customer's operation of the Generating Facility or Interconnection Customer's Interconnection Facilities. Interconnection Customer shall notify Transmission Provider promptly when it becomes aware of an Emergency Condition that affects the Generating Facility or Interconnection Customer's Interconnection Facilities that may reasonably be expected to affect the Transmission System or Transmission Provider's Interconnection Facilities. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of Interconnection Customer's or Transmission Provider's facilities and operations, its anticipated duration and the corrective action taken and/or to be taken. The initial notice shall be followed as soon as practicable with written notice.

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13.4 Immediate Action

Unless, in Interconnection Customer's reasonable judgment, immediate action is required, Interconnection Customer shall obtain the consent of Transmission Provider, such consent to not be unreasonably withheld, prior to performing any manual switching operations at the Generating Facility or Interconnection Customer's Interconnection Facilities in response to an Emergency Condition either declared by Transmission Provider or otherwise regarding the Transmission System.

13.5 Transmission Provider Authority

13.5.1 General

Transmission Provider may take whatever actions or inactions with regard to the Transmission System or Transmission Provider's Interconnection Facilities it deems necessary during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Transmission System or Transmission Provider's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service.

Transmission Provider shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Generating Facility or Interconnection Customer's Interconnection Facilities. Transmission Provider may, on the basis of technical considerations, require the Generating Facility to mitigate an Emergency Condition by taking actions necessary and limited in scope to remedy the Emergency Condition, including, but not limited to, directing Interconnection Customer to shut-down, start-up, increase or decrease the real or reactive power output of the Generating Facility; implementing a reduction or disconnection pursuant to Article 13.5.2; directing Interconnection Customer to assist with blackstart (if available) or restoration efforts; or

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altering the outage schedules of the Generating Facility and Interconnection Customer's Interconnection Facilities. Interconnection Customer shall comply with all of Transmission Provider's operating instructions concerning Generating Facility real power and reactive power output within the manufacturer's design limitations of the Generating Facility's equipment that is in service and physically available for operation at the time, in compliance with Applicable Laws and Regulations.

13.5.2 Reduction and Disconnection

Transmission Provider may reduce Interconnection Service or disconnect the Generating Facility or Interconnection Customer's Interconnection Facilities, when such, reduction or disconnection is necessary under Good Utility Practice due to Emergency Conditions. These rights are separate and distinct from any right of curtailment of Transmission Provider pursuant to Transmission Provider's Tariff. When Transmission Provider can schedule the reduction or disconnection in advance, Transmission Provider shall notify Interconnection. Transmission Provider shall coordinate with Interconnection Customer of the reduction or disconnection and expected duration of the reduction or disconnection. Transmission Provider shall coordinate with Interconnection Customer using Good Utility Practice to schedule the reduction or disconnection during periods of least impact to Interconnection Customer and Transmission Provider. Any reduction or disconnection shall continue only for so long as reasonably necessary under Good Utility Practice. The Parties shall cooperate with each other to restore the Generating Facility, the Interconnection Facilities, and the Transmission System to their normal operating state as soon as practicable consistent with Good Utility Practice.

13.6 Interconnection Customer Authority

Consistent with Good Utility Practice and the SGIA and the SGIP, Interconnection Customer may take actions or inactions with regard to the Generating Facility or

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Interconnection Customer's Interconnection Facilities during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Generating Facility or Interconnection Customer's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service. Interconnection Customer shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Transmission System and Transmission Provider's Interconnection Facilities. Transmission Provider shall use Reasonable Efforts to assist Interconnection Customer in such actions.

13.7 Limited Liability

Except as otherwise provided in Article 11.6.1 of this SGIA, neither Party shall be liable to the other for any action it takes in responding to an Emergency Condition so long as such action is made in good faith and is consistent with Good Utility Practice.

Article 14. Regulatory Requirements and Governing Law

14.1 Regulatory Requirements

Each Party's obligations under this SGIA shall be subject to its receipt of any required approval or certificate from one or more Governmental Authorities in the form and substance satisfactory to the applying Party, or the Party making any required filings with, or providing notice to, such Governmental Authorities, and the expiration of any time period associated therewith. Each Party shall in good faith seek and use its Reasonable Efforts to obtain such other approvals.

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14.2 Governing Law

- 14.2.1 The validity, interpretation and performance of this SGIA and each of its provisions shall be governed by the laws of British Columbia, without regard to its conflicts of law principles.
- 14.2.2 This SGIA is subject to all Applicable Laws and Regulations.
- 14.2.3 Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, rules, or regulations of a Governmental Authority.

Article 15. Notices

15.1 General

Unless otherwise provided in this SGIA, any notice, demand or request required or permitted to be given by either Party to the other and any instrument required or permitted to be tendered or delivered by either Party in writing to the other shall be effective when delivered and may be so given, tendered or delivered, by recognized national courier, or by depositing the same with Canada Post with postage prepaid, for delivery by certified or registered mail, addressed to the Party, or personally delivered to the Party, at the address set out in Appendix E, Addresses for Delivery of Notices and Billings.

Either Party may change the notice information in this SGIA by giving five (5) Business Days written notice prior to the effective date of the change.

15.2 Billings and Payments

Billings and payments shall be sent to the addresses set out in Appendix E.

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15.3 Alternative Forms of Notice

Any notice or request required or permitted to be given by a Party to the other and not required by this Agreement to be given in writing may be so given by telephone, facsimile or email to the telephone numbers and email addresses set out in Appendix E.

15.4 Operations and Maintenance Notice

Each Party shall notify the other Party in writing of the identity of the person(s) that it designates as the point(s) of contact with respect to the implementation of Articles 9 and 10.

Article 16. Force Majeure

16.1 Force Majeure

- 16.1.1 Economic hardship is not considered a Force Majeure event.
- 16.1.2 Neither Party shall be considered to be in Default with respect to any obligation hereunder, (including obligations under Article 4), other than the obligation to pay money when due, if prevented from fulfilling such obligation by Force Majeure. A Party unable to fulfill any obligation hereunder (other than an obligation to pay money when due) by reason of Force Majeure shall give notice and the full particulars of such Force Majeure to the other Party in writing or by telephone as soon as reasonably possible after the occurrence of the cause relied upon. Telephone notices given pursuant to this article shall be confirmed in writing as soon as reasonably possible and shall specifically state full particulars of the Force Majeure, the time and date when the Force Majeure occurred and when the Force Majeure is reasonably expected to cease. The Party affected shall exercise due diligence to remove such disability with reasonable dispatch, but shall not

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be required to accede or agree to any provision not satisfactory to it in order to settle and terminate a strike or other labour disturbance.

Article 17. Default

17.1 Default

17.1.1 General

No Default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of Force Majeure as defined in this SGIA or the result of an act of omission of the other Party. Upon a Breach, the non-breaching Party shall give written notice of such Breach to the breaching Party. Except as provided in Article 17.1.2, the breaching Party shall have thirty (30) Calendar Days from receipt of the Default notice within which to cure such Breach; provided however, if such Breach is not capable of cure within thirty (30) Calendar Days, the breaching Party shall commence such cure within thirty (30) Calendar Days from receipt of the Default notice within thirty (30) Calendar Days after notice and continuously and diligently complete such cure within ninety (90) Calendar Days from receipt of the Default notice; and, if cured within such time, the Breach specified in such notice shall cease to exist.

17.1.2 Right to Terminate

If a Breach is not cured as provided in this article, or if a Breach is not capable of being cured within the period provided for herein, the non-breaching Party shall have the right to declare a Default and terminate this SGIA by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this SGIA, to recover from the breaching Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this article will survive termination of this SGIA.

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Article 18. Indemnity, Consequential Damages and Insurance

18.1 Indemnity

Each Party shall at all times indemnify, defend, and hold the other Party, and its directors, officers, employees, agents and shareholders (each, an Indemnified Person) harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, legal fees, and all other obligations by or to third parties, arising out of or resulting from a Party's Breach, except in cases of gross negligence or intentional wrongdoing by the other Party.

18.1.1 Indemnified Person

If an Indemnified Person is entitled to indemnification under this Article 18 as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under Article 18.1, to assume the defense of such claim, such Indemnified Person may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.

18.1.2 Indemnifying Party

If an indemnifying Party is obligated to indemnify and hold any Indemnified Person harmless under this Article 18, the amount owing to the Indemnified Person shall be the amount of such Indemnified Person's actual Loss, net of any insurance or other recovery.

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18.1.3 Indemnity Procedures

Promptly after receipt by an Indemnified Person of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in Article 18.1 may apply, the Indemnified Person shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

The indemnifying Party shall have the right to assume the defense thereof with counsel designated by such indemnifying Party and reasonably satisfactory to the Indemnified Person. If the defendants in any such action include one or more Indemnified Persons and the indemnifying Party and if the Indemnified Person reasonably concludes that there may be legal defenses available to it and/or other Indemnified Persons which are different from or additional to those available to the indemnifying Party, the Indemnified Person shall have the right to select separate counsel to assert such legal defenses and to otherwise participate in the defense of such action on its own behalf. In such instances, the indemnifying Party shall only be required to pay the fees and expenses of one additional attorney to represent an Indemnified Person or Indemnified Persons having such differing or additional legal defenses.

The Indemnified Person shall be entitled, at its expense, to participate in any such action, suit or proceeding, the defense of which has been assumed by the indemnifying Party. Notwithstanding the foregoing, the indemnifying Party (i) shall not be entitled to assume and control the defense of any such action, suit or proceedings if and to the extent that, in the opinion of the Indemnified Person and its counsel, such action, suit or proceeding involves the potential imposition of criminal liability on the Indemnified Person, or there exists a conflict or adversity of interest between the Indemnified Person

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and the indemnifying Party, in such event the indemnifying Party shall pay the reasonable expenses of the Indemnified Person, and (ii) shall not settle or consent to the entry of any judgment in any action, suit or proceeding without the consent of the Indemnified Person, which shall not be unreasonably withheld, conditioned or delayed.

18.2 Consequential Damages

In no event shall either Party be liable under any provision of this SGIA for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to the other Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

18.3 Insurance

Each Party shall, at its own expense, maintain in force throughout the period of this SGIA, and until released by the other Party, the following minimum insurance coverages, with insurers authorized to do business in British Columbia:

- 18.3.1 Employers' Liability and Workers' Compensation Insurance providing statutory benefits in accordance with Applicable Laws and Regulations.
- 18.3.2 Commercial General Liability Insurance including premises and operations, personal injury, broad form property damage, broad form blanket contractual liability coverage (including coverage for the contractual indemnification) products and completed operations coverage, coverage for explosion, collapse and underground hazards,

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independent contractors coverage, coverage for pollution to the extent normally available and punitive damages to the extent normally available and a cross liability endorsement, with minimum limits of One Million Dollars (\$1,000,000) per occurrence/One Million Dollars (\$1,000,000) aggregate combined single limit for personal injury, bodily injury, including death and property damage.

- 18.3.3 Comprehensive Automobile Liability Insurance for coverage of owned and non-owned and hired vehicles, trailers or semi-trailers designed for travel on public roads, with a minimum, combined single limit of One Million Dollars (\$1,000,000) per occurrence for bodily injury, including death, and property damage.
- 18.3.4 Excess Public Liability Insurance over and above the Employers' Liability Commercial General Liability and Comprehensive Automobile Liability Insurance coverage, with a minimum combined single limit of Twenty Million Dollars (\$20,000,000) per occurrence/Twenty Million Dollars (\$20,000,000) aggregate.
- 18.3.5 The Commercial General Liability Insurance, Comprehensive Automobile Insurance and Excess Public Liability Insurance policies shall name the other Party, its parent, associated and Affiliate companies and their respective directors, officers, agents, servants and employees (Other Party Group) as additional insureds. All policies shall contain provisions whereby the insurers waive all rights of subrogation in accordance with the provisions of this SGIA against the Other Party Group and provide thirty (30) days advance written notice to the Other Party Group prior to anniversary date of cancellation or any material change in coverage or condition.
- 18.3.6 The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance and Excess Public Liability Insurance policies shall contain provisions that specify that the polices are primary and shall apply to such extent without

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consideration for other policies separately carried and shall state that each insured is provided coverage as though a separate policy had been issued to each, except the insurer's liability shall not be increased beyond the amount for which the insurer would have been liable had only one insured been covered. Each Party shall be responsible for its respective deductibles or retentions.

- 18.3.7 The Commercial General Liability Insurance, Comprehensive Automobile Liability Insurance and Excess Public Liability Insurance policies, if written on a Claims First Made Basis, shall be maintained in full force and effect for two (2) years after termination of this SGIA, which coverage may be in the form of tail coverage or extended reporting period coverage if agreed by the Parties.
- 18.3.8 The requirements contained herein as to the types and limits of all insurance to be maintained by the Parties are not intended to and shall not in any manner, limit or qualify the liabilities and obligations assumed by the Parties under this SGIA.
- 18.3.9 Within ten (10) days following execution of this SGIA, and as soon as practicable after the end of each fiscal year or at the renewal of the insurance policy and in any event within ninety (90) days thereafter, each Party shall provide certification of all insurance required in this SGIA, executed by each insurer or by an authorized representative of each insurer.
- 18.3.10 Notwithstanding the foregoing, each Party may self-insure to meet the minimum insurance requirements of Articles 18.3.2 through 18.3.8 to the extent it maintains a self-insurance program; provided that, such Party's senior secured-debt-is rated at investment grade or better by Standard & Poor's and that its self-insurance program meets the minimum insurance requirements of Articles 18.3.2 through 18.3.8. For any period of time that a Party's senior secured-debt is unrated by Standard & Poor's or is

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rated at less than investment grade by Standard & Poor's, such Party shall comply with the insurance requirements applicable to it under Articles 18.3.2 through 18.3.9. In the event that a Party is permitted to self-insure pursuant to this article, it shall notify the other Party that it meets the requirements to self-insure and that its self-insurance program meets the minimum insurance requirements in a manner consistent with that specified in Article 18.3.9.

- 18.3.11 The Parties agree to report to each other in writing as soon as practical all accidents or occurrences resulting in injuries to any person, including death, and any property damage arising out of this SGIA.
- 18.4 Indemnity in Favour of Transmission Owner

This SGIA shall not become effective until Interconnection Customer executes and delivers to Transmission Provider an indemnity in favour of Transmission Owner in the form attached in Appendix H.

Article 19. Assignment

19.1 Assignment

This SGIA may be assigned by either Party only with the written consent of the other; provided that either Party may assign this SGIA without the consent of the other Party to any Affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this SGIA; and provided further that Interconnection Customer shall have the right to assign this SGIA, without the consent of Transmission Provider, for collateral security purposes to aid in providing financing for the Generating Facility, provided that Interconnection Customer will promptly notify Transmission Provider of any such

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assignment. Any financing arrangement entered into by Interconnection Customer pursuant to this Article will provide that prior to or upon the exercise of the secured party's, trustee's or mortgagee's assignment rights pursuant to said arrangement, the secured creditor, the trustee or mortgagee will notify Transmission Provider of the date and particulars of any such exercise of assignment right(s), including providing the Transmission Provider with proof that it meets the requirements of Articles 11.5 and 18.3. Any attempted assignment that violates this Article is void and ineffective. Any assignment under this SGIA shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. Where required, consent to assignment will not be unreasonably withheld, conditioned or delayed.

Article 20. Severability

20.1 Severability

If any provision in this SGIA is finally determined to be invalid, void or unenforceable by any court or other Governmental Authority having jurisdiction, such determination shall not invalidate, void or make unenforceable any other provision, agreement or covenant of this SGIA.

Article 21. Comparability

21.1 Comparability

The Parties will comply with all applicable comparability and code of conduct laws, rules and regulations, as amended from time to time.

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Article 22. Confidentiality

22.1 Confidentiality

Confidential Information shall include, without limitation, all information relating to a Party's technology, research and development, business affairs, and pricing, and any information supplied by either of the Parties to the other prior to the execution of this SGIA.

Information is Confidential Information only if it is clearly designated or marked in writing as confidential on the face of the document, or, if the information is conveyed orally or by inspection, if the Party providing the information orally informs the Party receiving the information that the information is confidential.

If requested by either Party, the other Party shall provide in writing, the basis for asserting that the information referred to in this Article 22 warrants confidential treatment, and the requesting Party may disclose such writing to the appropriate Governmental Authority. Each Party shall be responsible for the costs associated with affording confidential treatment to its information.

Notwithstanding the foregoing, the release of Confidential Information shall be subject to Applicable Laws and Regulations and Applicable Reliability Standards.

22.1.1 Term

During the term of this SGIA, and for a period of three (3) years after the expiration or termination of this SGIA, except as otherwise provided in this Article 22, each Party shall hold in confidence and shall not disclose to any person Confidential Information.

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22.1.2 Scope

Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the other Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the other Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of this SGIA; or (6) is required, in accordance with Article 22.1.7 of the SGIA, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise required to be disclosed by law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under this SGIA. Information designated as Confidential Information will no longer be deemed confidential if the Party that designated the information as confidential notifies the other Party that it no longer is confidential.

22.1.3 Release of Confidential Information

Neither Party shall release or disclose Confidential Information to any other person, except to its Affiliates (limited by the Standards of Conduct requirements), contractors, subcontractors, employees, consultants, or to parties who may be or considering providing financing to or equity participation with Interconnection Customer, or to potential purchasers or assignees of Interconnection Customer, on a need-to-know basis in connection with this SGIA, unless such person has first been advised of the confidentiality provisions of this Article 22 and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to

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any person shall remain primarily responsible for any release of Confidential Information in contravention of this Article 22.

22.1.4 Rights

Each Party retains all rights, title, and interest in the Confidential Information that each Party discloses to the other Party. The disclosure by each Party to the other Party of Confidential Information shall not be deemed a waiver by either Party or any other person or entity of the right to protect the Confidential Information from public disclosure.

22.1.5 No Warranties

By providing Confidential Information, neither Party makes any warranties or representations as to its accuracy or completeness. In addition, by supplying Confidential Information, neither Party obligates itself to provide any particular information or Confidential Information to the other Party nor to enter into any further agreements or proceed with any other relationship or joint venture.

22.1.6 Standard of Care

Each Party shall use at least the same standard of care to protect Confidential Information it receives as it uses to protect its own Confidential Information from unauthorized disclosure, publication or dissemination. Each Party may use Confidential Information solely to fulfill its obligations to the other Party under this SGIA or as required by Applicable Law and Regulations, Applicable Reliability Standards or Good Utility Practice.

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22.1.7 Order of Disclosure

If a court or a Governmental Authority or entity with the right, power, and apparent authority to do so requests or requires either Party, by subpoena, oral deposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Party with prompt notice of such request(s) or requirement(s) so that the other Party may seek an appropriate protective order or waive compliance with the terms of this SGIA. Notwithstanding the absence of a protective order or waiver, the Party may disclose such Confidential Information which, in the opinion of its counsel, the Party is legally compelled to disclose. Each Party will use Reasonable Efforts to obtain reliable assurance that confidential treatment will be accorded any Confidential Information so furnished.

22.1.8 Termination of Agreement

Upon termination of this SGIA for any reason, each Party shall, within ten (10) Calendar Days of receipt of a written request from the other Party, use Reasonable Efforts to destroy, erase, or delete (with such destruction, erasure, and deletion certified in writing to the other Party) or return to the other Party, without retaining copies thereof, any and all written or electronic Confidential Information received from the other Party.

22.1.9 Remedies

The Parties agree that monetary damages would be inadequate to compensate a Party for the other Party's Breach of its obligations under this Article 22. Each Party accordingly agrees that the other Party shall be entitled to equitable relief, by way of injunction or otherwise, if the first Party Breaches or threatens to Breach its obligations under this Article 22, which equitable relief shall be granted without bond or proof of

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damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the Breach of this Article 22, but shall be in addition to all other remedies available at law or in equity. The Parties further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Article 22.

22.1.10 Disclosure to the Commission

Notwithstanding anything in this Article 22 to the contrary, if the Commission during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to this SGIA, the Party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the Party must request that the information be treated as confidential and non-public by the Commission and that the information be withheld from public disclosure.

22.1.11 Subject to the exception in Article 22.1.10, any information that a Party claims is competitively sensitive, commercial or financial information under this SGIA (Confidential Information) shall not be disclosed by the other Party to any person not employed or retained by the other Party, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Party to be required to be disclosed in connection with a dispute between or among the Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the other Party, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this SGIA or as a transmission service provider or a Control Area operator including disclosing the Confidential

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Information to a subregional, regional or national reliability organization. The Party asserting confidentiality shall notify the other Party in writing of the information it claims is confidential. Prior to any disclosures of the other Party's Confidential Information under this subparagraph, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subparagraph, the disclosing Party agrees to promptly notify the other Party in writing and agrees to assert confidentiality and cooperate with the other Party in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

Article 23. Environmental Releases

23.1 Notice of Release

Each Party shall notify the other Party, first orally and then in writing, of the release of any Hazardous Substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall: (i) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than twenty-four hours after such Party becomes aware of the occurrence; and (ii) promptly furnish to the other Party copies of any publicly available reports filed with any Governmental Authorities addressing such events.

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Article 24. Information Requirements

24.1 Information Acquisition

Transmission Provider and Interconnection Customer shall submit specific information regarding the electrical characteristics of their respective facilities to each other as described below and in accordance with Applicable Reliability Standards and the requirements and procedures of applicable reliability organizations.

24.2 Information Submission by Transmission Provider

The initial information submission by Transmission Provider shall occur no later than one hundred eighty (180) Calendar Days prior to Trial Operation and shall include Transmission System information necessary to allow Interconnection Customer to select equipment and meet any system protection and stability requirements, unless otherwise agreed to by the Parties. On a monthly basis Transmission Provider shall provide Interconnection Customer a status report on the construction and installation of Transmission Provider's Interconnection Facilities and Network Upgrades, including, but not limited to, the following information: (1) progress to date; (2) a description of the activities since the last report; (3) a description of the action items for the next period; and (4) the delivery status of equipment ordered.

24.3 Updated Information Submission by Interconnection Customer

The updated information submission by Interconnection Customer, including manufacturer information, shall occur no later than one hundred eighty (180) Calendar Days prior to the Trial Operation. Interconnection Customer shall submit a completed copy of the Generating Facility data requirements contained in Appendix 1 to the SGIP. It shall also include any additional information provided to Transmission Provider for the

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Interconnection Feasibility Study and Interconnection Facilities Study. Information in this submission shall be the most current Generating Facility design or expected performance data. Information submitted for stability models shall be compatible with Transmission Provider standard models. If there is no compatible model, Interconnection Customer will work with a consultant mutually agreed to by the Parties to develop and supply a standard model and associated information.

If Interconnection Customer's data is materially different from what was originally provided to Transmission Provider pursuant to the Combined Study Agreement between Transmission Provider and Interconnection Customer, then Transmission Provider will conduct appropriate studies to determine the impact on Transmission Provider Transmission System based on the actual data submitted pursuant to this Article 24.3. The Interconnection Customer shall not begin Trial Operation until such studies are completed.

24.4 Information Supplementation

Prior to the Operation Date, the Parties shall supplement their information submissions described above in this Article 24 with any and all "as-built" Generating Facility information or "as-tested" performance information that differs from the initial submissions or, alternatively, written confirmation that no such differences exist. The Interconnection Customer shall conduct tests on the Generating Facility as required by Good Utility Practice such as an open circuit "step voltage" test on the Generating Facility to verify proper operation of the Generating Facility's automatic voltage regulator.

Unless otherwise agreed, the test conditions shall include: (1) Generating Facility at synchronous speed; (2) automatic voltage regulator on and in voltage control mode; and (3) a five percent change in Generating Facility terminal voltage initiated by a change in

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the voltage regulators reference voltage. Interconnection Customer shall provide validated test recordings showing the responses of Generating Facility terminal and field voltages. In the event that direct recordings of these voltages is impractical, recordings of other voltages or currents that mirror the response of the Generating Facility's terminal or field voltage are acceptable if information necessary to translate these alternate quantities to actual Generating Facility terminal or field voltages is provided. Generating Facility testing shall be conducted and results provided to Transmission Provider for each individual generating unit in a station.

Subsequent to the Commercial Operation Date, Interconnection Customer shall provide Transmission Provider any information changes due to equipment replacement, repair, or adjustment. Transmission Provider shall provide Interconnection Customer any information changes due to equipment replacement, repair or adjustment in the directly connected substation or any adjacent Transmission Provider operated substation that may affect Interconnection Customer's Interconnection Facilities equipment ratings, protection or operating requirements. The Parties shall provide such information no later than thirty (30) Calendar Days after the date of the equipment replacement, repair or adjustment.

Article 25. Information Access And Audit Rights

25.1 Information Access

Each Party (the disclosing Party) shall make available to the other Party information that is in the possession of the disclosing Party and is necessary in order for the other Party to: (i) verify the costs incurred by the disclosing Party for which the other Party is responsible under this SGIA; and (ii) carry out its obligations and responsibilities under

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this SGIA. The Parties shall not use such information for purposes other than those set forth in this Article 25.1 and to enforce their rights under this SGIA.

25.2 Reporting of Non-Force Majeure Events

Each Party (the notifying Party) shall notify the other Party when the notifying Party becomes aware of its inability to comply with the provisions of this SGIA for a reason other than a Force Majeure event. The Parties agree to cooperate with each other and provide necessary information regarding such inability to comply, including the date, duration, reason for the inability to comply, and corrective actions taken or planned to be taken with respect to such inability to comply. Notwithstanding the foregoing, notification, cooperation or information provided under this Article shall not entitle the Party receiving such notification to allege a cause for anticipatory breach of this SGIA.

25.3 Audit Rights

Subject to the requirements of confidentiality under Article 22 of this SGIA, each Party shall have the right, during normal business hours, and upon prior reasonable notice to the other Party, to audit at its own expense the other Party's accounts and records pertaining to either Party's performance or either Party's satisfaction of obligations under this SGIA. Such audit rights shall include audits of the other Party's costs, calculation of invoiced amounts, Transmission Provider's efforts to allocate responsibility for the provision of reactive support to the Transmission System, Transmission Provider's efforts to allocate responsibility for the Transmission System, and each Party's actions in an Emergency Condition. Any audit authorized by this Article shall be performed at the offices where such accounts and records are maintained and shall be limited to those portions of such accounts and records that relate to each Party's performance and satisfaction of obligations under this

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SGIA. Each Party shall keep such accounts and records for a period equivalent to the audit rights periods described in Article 25.4.

25.4 Audit Rights Periods

25.4.1 Audit Rights Period for Construction-Related Accounts and Records

Accounts and records related to the design, engineering, procurement, and construction of Transmission Provider's Interconnection Facilities and Network Upgrades shall be subject to audit for a period of twenty-four months following Transmission Provider's issuance of a final invoice in accordance with Article 12.2.

25.4.2 Audit Rights Period for All Other Accounts and Records

Accounts and records related to either Party's performance or satisfaction of all obligations under this SGIA other than those described in Article 25.4.1 shall be subject to audit as follows: (i) for an audit relating to cost obligations, the applicable audit rights period shall be twenty-four months after the auditing Party's receipt of an invoice giving rise to such cost obligations; and (ii) for an audit relating to all other obligations, the applicable audit rights period shall be twenty-four months after the audit relating to all other obligations, the applicable audit rights period shall be twenty-four months after the event for which the audit is sought.

25.5 Audit Results

If an audit by a Party determines that an overpayment or an underpayment has occurred, a notice of such overpayment or underpayment shall be given to the other Party together with those records from the audit which support such determination.

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Article 26. Subcontractors

26.1 General

Nothing in this SGIA shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this SGIA; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this SGIA in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

26.2 Responsibility of Principal

The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this SGIA. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall Transmission Provider be liable for the actions or inactions of Interconnection Customer or its subcontractors with respect to obligations of Interconnection Customer under Article 5 of this SGIA. Any applicable obligation imposed by this SGIA upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

26.3 No Limitation by Insurance

The obligations under this Article 26 will not be limited in any way by any limitation of subcontractor's insurance.

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Article 27. Disputes

In the event either Party has a dispute, or asserts a claim, that arises out of or in connection with the other Party's failure to comply with this SGIA, such dispute or claim shall be resolved in accordance with Dispute Resolution.

Article 28. Representations, Warranties and Covenants

28.1 General

Each Party makes the following representations, warranties and covenants:

28.1.1 Good Standing

Such Party is duly organized, validly existing and in good standing under the laws of the jurisdiction in which it is organized, formed, or incorporated, as applicable; that it is qualified to do business in British Columbia; and that it has the corporate power and authority to own its properties, to carry on its business as now being conducted and to enter into this SGIA and carry out the transactions contemplated hereby and perform and carry out all covenants and obligations on its part to be performed under and pursuant to this SGIA.

28.1.2 Authority

Such Party has the right, power and authority to enter into this SGIA, to become a party hereto and to perform its obligations hereunder. This SGIA is a legal, valid and binding obligation of such Party, enforceable against such Party in accordance with its terms, except as the enforceability thereof may be limited by applicable bankruptcy, insolvency, reorganization or other similar laws affecting creditors' rights generally and by general

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equitable principles (regardless of whether enforceability is sought in a proceeding in equity or at law).

28.1.3 No Conflict

The execution, delivery and performance of this SGIA does not violate or conflict with the organizational or formation documents, or bylaws or operating agreement, of such Party, or any judgment, license, permit, order, material agreement or instrument applicable to or binding upon such Party or any of its assets

28.1.4 Consent and Approval

Such Party has sought or obtained, or, in accordance with this SGIA will seek or obtain, each consent, approval, authorization, order, or acceptance by any Governmental Authority in connection with the execution, delivery and performance of this SGIA, and it will provide to any Governmental Authority notice of any actions under this SGIA that are required by Applicable Laws and Regulations.

Article 29. Joint Operating Committee

29.1 Joint Operating Committee

Transmission Provider shall constitute a Joint Operating Committee to coordinate operating and technical considerations of Interconnection Service. At least six (6) months prior to the expected Initial Synchronization Date, Interconnection Customer and Transmission Provider shall each appoint one representative and one alternate to the Joint Operating Committee. Interconnection Customer shall notify Transmission Provider of its appointment in writing. Such appointments may be changed at any time by similar notice. The Joint Operating Committee shall meet as necessary, but not less than once each calendar year, to carry out the duties set forth herein. The Joint Operating

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Committee shall hold a meeting at the request of either Party, at a time and place agreed upon by the representatives. The Joint Operating Committee shall perform all of its duties consistent with the provisions of this SGIA. Each Party shall cooperate in providing to the Joint Operating Committee all information required in the performance of the Joint Operating Committee's duties. All decisions and agreements, if any, made by the Joint Operating Committee shall be evidenced in writing. The duties of the Joint Operating Committee shall include the following:

- 29.1.1 Establish data requirements and operating record requirements.
- 29.1.2 Review the requirements, standards, and procedures for data acquisition equipment, protective equipment, and any other equipment or software.
- 29.1.3 Annually review the one (1) year forecast of maintenance and planned outage schedules of Transmission Provider's and Interconnection Customer's facilities at the Point of Interconnection.
- 29.1.4 Coordinate the scheduling of maintenance and planned outages on the Interconnection Facilities, the Generating Facility and other facilities that impact the normal operation of the interconnection of the Generating Facility to the Transmission System.
- 29.1.5 Ensure that information is being provided by each Party regarding equipment availability.
- 29.1.6 Establish Operating Order(s) that will, without limitation, establish operating authority boundaries and isolation procedures for the Generating Facility and that part of the Transmission System which is affected by its interconnection to the Generating Facility.
- 29.1.7 Perform such other duties as may be conferred upon it by mutual agreement of the Parties.

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Article 30. Miscellaneous

30.1 Binding Effect

This SGIA and the rights and obligations hereof, shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.

30.2 Conflicts

In the event of a conflict between the body of this SGIA and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this SGIA shall prevail and be deemed the final intent of the Parties.

30.3 Rules of Interpretation

This SGIA, unless a clear contrary intention appears, shall be construed and interpreted as follows: (1) the singular number includes the plural number and vice versa; (2) reference to any person includes such person's successors and assigns but, in the case of a Party, only if such successors and assigns are permitted by this SGIA, and reference to a person in a particular capacity excludes such person in any other capacity or individually; (3) reference to any agreement (including this SGIA), document, instrument or tariff means such agreement, document, instrument, or tariff as amended or modified and in effect from time to time in accordance with the terms thereof and, if applicable, the terms hereof; (4) reference to any Applicable Laws and Regulations means such Applicable Laws and Regulations as amended, modified, codified, or reenacted, in whole or in part, and in effect from time to time, including, if applicable, rules and regulations promulgated thereunder; (5) unless expressly stated otherwise, reference to any Article, Section or Appendix means such Article of this SGIA or such Appendix to this SGIA, or such SGIP or such Appendix to the SGIP, as

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the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this SGIA as a whole and not to any particular Article or other provision hereof or thereof; (7) "including" (and with correlative meaning "include") means including without limiting the generality of any description preceding such term; and (8) relative to the determination of any period of time, "from" means "from and including", "to" means "to but excluding" and "through" means "through and including".

30.4 Entire Agreement

This SGIA, including all Appendices and Schedules attached hereto, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this SGIA. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this SGIA.

30.5 No Third Party Beneficiaries

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Except with respect to the security contemplated by Article 11.5 and the indemnity in favour of the Transmission Owner contemplated by Article 18.4, this This SGIA is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favour of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.

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30.6 Waiver

The failure of a Party to this SGIA to insist, on any occasion, upon strict performance of any provision of this SGIA will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this SGIA shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this SGIA. Termination or Default of this SGIA for any reason by Interconnection Customer shall not constitute a waiver of Interconnection Customer's legal rights to obtain an interconnection from Transmission Provider. Any waiver of this SGIA shall, if requested, be provided in writing.

30.7 Headings

The descriptive headings of the various Articles of this SGIA have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this SGIA.

30.8 Multiple Counterparts

This SGIA may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

30.9 Amendment

The Parties may by mutual agreement amend this SGIA by a written instrument duly executed by the Parties.

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30.10 Modification by the Parties

The Parties may by mutual agreement amend the Appendices to this SGIA by a written instrument duly executed by the Parties. Such amendment shall become effective and a part of this SGIA upon satisfaction of all Applicable Laws and Regulations.

30.11 Reservation of Rights

Transmission Provider and Interconnection Customer shall each have the right to make a unilateral filing with the Commission to modify this SGIA with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before the Commission in which such modifications may be considered.

30.12 No Partnership

This SGIA shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

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IN WITNESS WHEREOF, the Parties have executed this SGIA in duplicate originals, each of which shall constitute and be an original effective Agreement between the Parties.

BRITISH COLUMBIA TRANSMISSION CORPORATION HYDRO AND POWER AUTHORITY

Ву:
Title:
Date:
Insert name of Interconnection Customer]
Зу:
Title:
Date:

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APPENDIX A to SGIA

Interconnection Facilities and Network Upgrades

- 1. Interconnection Facilities:
 - (a) [insert Interconnection Customer's Interconnection Facilities]:
 - (b) [insert Transmission Provider's Interconnection Facilities]:

2. Network Upgrades:

- (a) [insert Stand Alone Network Upgrades]:
- (b) [insert Other Network Upgrades]:

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APPENDIX B to SGIA

Milestones

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APPENDIX C to SGIA

Interconnection Details

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APPENDIX D to SGIA

Commercial Operation Date

This Appendix D is a part of the SGIA between Transmission Provider and Interconnection Customer.

[Date]

British Columbia Transmission Corporation BC Hydro

Suite 1100, Four Bentall Centre

1055 Dunsmuir Street

Vancouver BC, V7X 1V5[To be supplied.]

Attention: [To be supplied] Manager, Market Operations

Re: _____ Generating Facility

Dear _____:

On [Date] [Interconnection Customer] has completed Trial Operation of Unit No. ____. This letter confirms that [Interconnection Customer] commenced Commercial Operation of Unit No. ____ at the Generating Facility, effective as of [Date plus one day].

Thank you.

[Signature]

[Interconnection Customer Representative]

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APPENDIX E to SGIA

Addresses for Delivery of Notices and Billings

Notices:

Transmission Provider:

British Columbia Transmission Corporation<u>BC Hydro</u> Suite 1100, Four Bentall Centre 1055 Dunsmuir Street Vancouver BC, V7X 1V5[To be supplied.]

Attention: [To be supplied]Manager, Market Operations

Interconnection Customer:

[To be supplied.]

Billings and Payments:

Transmission Provider:

[To be supplied.]

Interconnection Customer:

[To be supplied.]

Alternative Forms of Delivery of Notices (telephone, facsimile or email):

Transmission Provider:

[To be supplied.]

Interconnection Customer:

[To be supplied.]

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British Columbia Transmission Corporation Open Access Transmission Tariff

BC Hydro

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APPENDIX F to SGIA

Reserved

WECC RMS Agreement

1. Definitions

In this Appendix, the following words and terms will have the meaning ascribed to them in this Clause 1, unless the context requires otherwise.

"Canadian Regulatory Authority" means the agency or agencies established under the laws of Canada or the applicable Provinces of Canada and having jurisdiction over facilities, interconnections, transmission rates, charges, terms and conditions of service of Transmission Provider.

"Member" means any party to the WECC Agreement.

"Participant" has the meaning set out in the WSCC Reliability Criteria Agreement.

"Reliability Management System" or "RMS" means the contractual reliability management program implemented through the WECC Reliability Criteria Agreement, Clause 2 of this Appendix, and any similar contractual arrangement.

"Western Interconnection" means the area comprising those states and provinces, or portions thereof, in Western Canada, Northern Mexico and the Western United States in which members of the WECC operate synchronously connected transmission systems.

"WECC" means the Western Electricity Coordinating Council or any successor entity.

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"WECC Agreement" means the Western Electricity Coordinating Council Agreement dated March 20, 1967, as such may be amended from time to time.

"WECC Reliability Criteria Agreement" means the Electricity Systems Coordinating Council Reliability Criteria Agreement - Canadian Language Version dated November 1, 2000 among the WECC and certain of its Canadian member transmission operators, as such may be amended from time to time.

"WECC Staff" means those employees of the WECC, including personnel hired by the WECC on a contract basis, designated as responsible for the administration of the RMS.

2. Reliability Management System

2.1 Purpose

In order to maintain the reliable operation of the transmission grid, the WECC Reliability Criteria Agreement sets forth reliability criteria adopted by the WECC to which Interconnection Customer and Transmission Provider shall be required to comply.

2.2 Compliance

Interconnection Customer will comply with the requirements of the WECC Reliability Criteria Agreement, including the applicable WECC reliability criteria set forth in Section IV of Annex A thereof, and, in the event of failure to comply, agrees to be subject to the sanctions applicable to such failure. Such sanctions will be assessed pursuant to the procedures contained in the WECC Reliability Criteria Agreement. Each and all of the provisions of the WECC Reliability Criteria Agreement are hereby incorporated by reference into this Clause 2 as though set forth fully herein, and Interconnection Customer shall for all purposes be considered a Participant, and shall be entitled to all of

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the rights and privileges and be subject to all of the obligations of a Participant, under and in connection with the WECC Reliability Criteria Agreement, including but not limited to the rights, privileges and obligations set forth in Sections 5, 6 and 10 of the WSCC Reliability Criteria Agreement.

2.3 Payment of Sanctions

Interconnection Customer shall be responsible for payment of any monetary sanction assessed against Interconnection Customer by WECC pursuant to the WECC Reliability Criteria Agreement. Any such payment will be made pursuant to the procedures specified in the WECC Reliability Criteria Agreement.

2.4 Transfer of Control or Sale of Generation Facilities

In any sale or transfer of control of any generation facilities subject to this SGIA, Interconnection Customer shall as a condition of such sale or transfer require the acquiring party or transferee with respect to the transferred facilities either to assume the obligations of the Interconnection Customer with respect to this Appendix or to enter into an agreement with Transmission Provider imposing on the acquiring party or transferee the same obligations applicable to Interconnection Customer pursuant to this Clause 2.

2.5 Publication

Interconnection Customer consents to the release by the WECC of information related to the Interconnection Customer's compliance with this Appendix only in accordance with the WECC Reliability Criteria Agreement.

2.6 Third Parties

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Except for the rights and obligations between the WECC and Interconnection Customer specified in this Clause 2, this Appendix creates contractual rights and obligations solely between the Parties. Nothing in this Appendix will create, as between the Parties or with respect to the WECC: (1) any obligation or liability whatsoever (other than as expressly provided in this Appendix), or (2) any duty or standard of care whatsoever. In addition, nothing in this Appendix shall create any duty, liability, or standard of care whatsoever as to any other party. Except for the rights, as a third-party beneficiary under this Clause 2, of the WECC against Interconnection Customer, no third-party shall have any rights whatsoever with respect to enforcement of any provision of this Appendix. Transmission Provider and Interconnection Customer expressly intend that the WECC is a third-party beneficiary to this Clause 2, and the WECC shall have the right to seek to enforce against Interconnection Customer any provision of this Clause 2, provided that specific performance shall be the sole remedy available to the WECC pursuant to Clause 2 of this Appendix, and Interconnection Customer shall not be liable to the WECC pursuant to this Appendix for damages of any kind whatsoever (other than the payment of sanctions to the WECC, if so construed), whether direct, compensatory, special, indirect, consequential, or punitive.

2.7 Reserved Rights

Nothing in the RMS or the WECC Reliability Criteria Agreement shall affect the right of Transmission Provider, subject to any necessary regulatory approval, to take such other measures to maintain reliability, including disconnection, which Transmission Provider may otherwise be entitled to take.

2.8 Severability

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If one or more provisions of this Clause 2 shall be invalid, illegal or unenforceable in any respect, it shall be given effect to the extent permitted by applicable law, and such invalidity, illegality or unenforceability shall not affect the validity of the other provisions of this Agreement.

2.9 Termination

Interconnection Customer may terminate its obligations pursuant to this Clause 2:

- (a) if after the Effective Date, the requirements of the WECC Reliability Criteria Agreement applicable to Interconnection Customer are amended so as to adversely affect Interconnection Customer, provided that Interconnection Customer gives fifteen (15) days' notice of such termination to Transmission Provider and the WECC within forty-five (45) days of the date the appropriate Canadian Regulatory Authority accepts or approves such amendment, provided further that the forty-five (45) day period within which notice of termination is required may be extended by Interconnection Customer for an additional fortyfive (45) days if Interconnection Customer gives written notice to Transmission Provider of such requested extension within the initial forty-five (45) day period; or
- (b) for any reason on one year's written notice to Transmission Provider and the WECC.

2.10 Mutual Agreement

This Clause 2 may be terminated at any time by mutual agreement of Transmission Provider and Interconnection Customer.

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BC Hydro

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APPENDIX G to SGIA

Dispute Resolution Procedure

1. Internal Dispute Resolution Procedures

Any dispute between the Interconnection Customer and Transmission Provider involving Interconnection Service under the Tariff or this SGIA (excluding applications for rate changes or other changes to the Tariff which shall be presented directly to the Commission for resolution) shall be referred to a designated senior representative of the Transmission Provider and a senior representative of the Interconnection Customer for resolution on an informal basis as promptly as practicable. In the event the designated representatives are unable to resolve the dispute within thirty (30) Calendar Days or such other period as the Parties may agree upon by mutual agreement, such dispute may be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below.

2. External Arbitration Procedures

Any arbitration initiated pursuant to Paragraph 1 above shall be conducted in British Columbia before a single neutral arbitrator appointed by the Parties. If the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the referral of the dispute to arbitration, each Party shall choose one arbitrator who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within twenty (20) Calendar Days select a third arbitrator to chair the arbitration panel. In either case, the arbitrators shall be knowledgeable in electric utility matters and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall conduct the arbitration in British Columbia and

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shall provide each of the Parties an opportunity to be heard and, except as otherwise provided herein, shall generally conduct the arbitration in accordance with the Commercial Arbitration Act of British Columbia.

3. Arbitration Decisions

Unless otherwise agreed, the arbitrator(s) shall render a decision within ninety (90) Calendar Days of appointment and shall notify the Parties in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of the Tariff and this SGIA, as applicable, and shall have no power to modify or change any of them in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards of the Commercial Arbitration Act of British Columbia. The final decision of the arbitrator must also be filed with the Commission if it affects the Transmission Provider's rates, terms and conditions of service or facilities.

4. Costs

Each Party shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable:

- (a) the cost of the arbitrator chosen by the Party to sit on the three member panel and one half of the cost of the third arbitrator chosen; or
- (b) one half the cost of the single arbitrator jointly chosen by the Parties.

5. Rights Under The British Columbia Utilities Commission Act

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Nothing in this dispute resolution procedure shall restrict the rights of any party to file a Complaint with the Commission under relevant provisions of the British Columbia *Utilities Commission Act*.

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APPENDIX H to SGIA

Transmission Owner Indemnity

THIS INDEMNITY AGREEMENT is made as of the ____ day of _____, 20____.

WHEREAS British Columbia Transmission Corporation (BCTC) and the undersigned (the Indemnitor) entered into a Standard Generator Interconnection Agreement dated the ____ day of _____, 20_____ (the Interconnection Agreement); and

WHEREAS BCTC operates the Transmission System (as defined in the Interconnection Agreement), but British Columbia Hydro and Power Authority (BC Hydro) has legal ownership of the majority of the Transmission System; and

WHEREAS it is a condition of the Indemnitor interconnecting the Indemnitor's Generating Facility to the Transmission System (each as defined in the Interconnection Agreement) that the Indemnitor execute this Indemnity Agreement in favour of BC Hydro.

NOW THEREFORE THIS INDEMNITY AGREEMENT WITNESSES that, in consideration of BCTC permitting the Indemnitor's Generating Facility to be interconnected to the Transmission System, the sum of ten (\$10) dollars paid by BCTC on behalf of BC Hydro to the Indemnitor, and for other good and valuable consideration, the receipt and sufficiency of which are acknowledged by the Indemnitor, the Indemnitor covenants and agrees with BC Hydro as follows:

1. Subject to paragraphs 2 and 3, the Indemnitor shall indemnify and save and hold harmless BC Hydro, its directors, officers, employees, shareholders, agents, successors

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and assigns (collectively, the Indemnitees and each individually, an Indemnitee) from and against any and all claims, liabilities, losses, damages, costs and expenses (including legal fees and disbursements on a solicitor client basis and consultant fees and disbursements), fines, penalties, judgements, awards, assessments or charges of any kind, with any of the Indemnitees incurs, suffers or is put to which in any way relate to or arise or result from any third-party claim, demand or proceeding, which in any way relate to or arise or result from any failure by the Indemnitor to keep, observe or perform any obligations, covenants, terms or conditions under the Interconnection Agreement to be kept, observed or performed by the Indemnitor, or any negligent, reckless or intentional wrongdoing of the Indemnitor or any director, officer, employee, shareholder or agent of the Indemnitor.

- 2. Paragraph 1 shall not apply to the extent any claims, liabilities, losses, damages, costs and expenses (including legal fees and disbursements on a solicitor-client basis and consultant fees and disbursements), fines, penalties, judgements, awards, assessments or charges are attributable to any gross negligence or intentional wrongdoing of any of the Indemnitees.
- 3. Notwithstanding paragraph 1, neither the Indemnitor nor BC Hydro, nor any of its directors, officers, employees, shareholders, agents, successors and assigns, shall be liable to the other party, or any of its directors, officers, employees, shareholders, agents, successors and assigns, under or in relation to the Interconnection Agreement for indirect or consequential damages, injury or loss suffered by that other party or its directors, officers, employees, shareholders, agents, successors and assigns, howsoever and whensoever caused, and whether arising in contract or in tort, including loss of profits,

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loss of revenue, cost of capital, cost of purchased or replacement capacity or energy, and loss of use of any facilities, property or equipment.

4. This Indemnity shall survive any amendment or termination of the Interconnection Agreement and shall enure to the benefit of BC Hydro and its successors and assigns.

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IN WITNESS WHEREOF the Indemnitor has executed this Indemnity under seal as of the date

first above written.

THE CORPORATE SEAL of		
)	
was hereunto affixed in the presence o	f:)	
)	-C/S
)	
Authorized Signatory)	
)	
)	
A	uthorized Signatory)	

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ATTACHMENT M-2

<u>–</u> Transmission Service and Interconnection Service Procedures for <u>CEAPS</u><u>Competitive</u> Electricity Acquisition Processes (CEAPs)

1. Preamble

This attachment contains certain replacement and additional procedures required in order for interconnection customers to obtain NRIS, and for Network Customers to obtain modifications to its Network Integration Transmission Service, for generation resources participating in and selected in a Competitive Electricity Acquisition Process.

2. Definitions

Capitalized words not defined in this Section 2 of Attachment M-2 shall be given the meanings ascribed to them elsewhere in this Tariff.

Competitive Electricity Acquisition Process (CEAP) means a competitive process initiated by a Network Customer to acquire electricity from CEAP Generators.

CEAP Generator means a generation resource that is the subject of a CEAP IR, and **CEAP Generators** means all such generation resources.

CEAP IR means an Interconnection Request for Network Resource Interconnection Service received from a Participant on the CEAP IR Submission Date in accordance with the provisions of this Attachment M-2 and Section 3.3.1 of the SGIP.

CEAP IR Submission Date means the date specified by a Network Customer for the submission of CEAP IRs in connection with any CEAP.

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CEAP Transmission Information means information relating to the Transmission System that could assist in evaluating the incremental costs to a Network Customer for its Network Integration Transmission Service if it were to designate CEAP Generators as Network Resources, including without limitation transmission cut-planes and reinforcement options.

D-Connected CEAP Generator means a generation resource, the proponent of which is participating in a CEAP, but for which no CEAP IR is submitted because the generation resource is seeking interconnection to the Network Customer's distribution system.

Optional CEAP Studies means studies involving the Transmission System or CEAP IRs or both that could assist a Network Customer in selecting the Successful Participants.

Participant means the proponent of a CEAP Generator, and **Participants** means all such proponents.

Reasonable Efforts means efforts that are timely and consistent with Good Utility Practice and are otherwise substantially equivalent to those a person would use to protect the person's own interests.

SGIP means Attachment M-1 of the Tariff.

Successful Participant means a Participant with whom a Network Customer is prepared to contract with for the supply of power in connection with any CEAP.

Workshop means the workshop referred to in Paragraph 4.3 below.

3. Relationship with Tariff

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The provisions of the balance of the Tariff apply to CEAP IRs and any Applications for a modification to NITS received by the Transmission Provider in connection with any CEAP, except as otherwise specifically provided in this Attachment M-2.

4. CEAP Procedures

4.1 Advanced Notice of CEAP

A Network Customer that wishes to avail itself of the provisions of this Attachment M-2 in connection with a CEAP, and make the provisions of this Attachment M-2 available to Participants in that CEAP, shall provide the Transmission Provider with at least 60 Calendar Days' prior written notice before formally issuing or commencing the CEAP.

4.2 Consultation

A Network Customer and the Transmission Provider shall consult during the period beginning on receipt by the Transmission Provider of the notice contemplated by Paragraph 4.1 and ending on the date the CEAP Transmission Information is provided to the Network Customer in respect of the following:

- (a) Design considerations for the CEAP for coordination with the Tariff;
- (b) Milestones for activities to be undertaken pursuant to this Attachment M-2;
- (c) Scope and volume of CEAP Transmission Information;
- (d) Scope and volume of Optional CEAP Studies;
- (e) Date of the Workshop; and
- (f) Coordination of studies related to D-Connected CEAP Generators.

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The purpose of the consultation is to assist the Network Customer in designing and implementing a CEAP process that meets the Network Customer's needs and integrates with the Tariff, including the timelines provided for in this Attachment M-2.

4.3 Workshop

At Network Customer's request, or in the absence of such a request at Transmission Provider's option, Transmission Provider shall provide a workshop for Participants in respect of CEAP IR requirements at least 30 Calendar Days before the CEAP IR Submission Date.

4.4 Pre-Submission of CEAP IRs

Each Participant must submit an Interconnection Request for each of its CEAP Generators to the Transmission Provider at least 30 Calendar Days before the CEAP IR Submission Date. Sections 3.3.2, 3.3.3 and Appendix 1 (including Attachments) of the SGIP apply in respect of these Interconnection Requests.

4.5 CEAP IR Submission Date

A Network Customer shall specify a CEAP IR Submission Date for every CEAP. Notwithstanding Sections 3.3.1 and 3.3.3 of the SGIP, only valid Interconnection Requests received by the Transmission Provider from Participants on or before the CEAP IR Submission Date, together with an executed Interconnection Feasibility Study Agreement and the deposits required by Sections 3.3.1 and 6.1 of the SGIP, will be accepted by the Transmission Provider as CEAP IRs and processed in accordance with this Attachment M-2. Section 3.3.4 of the SGIP does not apply to CEAP IRs. Section 3.4 of the SGIP only applies to CEAP IRs from and after the CEAP IR Submission Date.

4.6 CEAP IR Queue Position

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Notwithstanding the definition of Queue Position in the SGIP, the Queue Position for CEAP IRs shall be deemed to have been received simultaneously at 12:00 AM on that CEAP IR Submission Date and each shall be assigned the same Queue priority.

4.7 Interconnection Feasibility Studies

The Transmission Provider shall complete an Interconnection Feasibility Study for each CEAP IR in accordance with Section 6 of the SGIP except as follows:

- (a) Notwithstanding Section 6.2 of the SGIP, the Interconnection Feasibility Study for each CEAP IR will not consider the other CEAP IRs;
- (b) Notwithstanding Section 6.3 of the SGIP, Transmission Provider shall use Reasonable Efforts to complete all Interconnection Feasibility Studies for the CEAP IRs within 10 weeks of the CEAP IR Submission Date;
- Notwithstanding Sections 6.3 and 3.4 of the SGIP, Transmission Provider shall deliver all Interconnection Feasibility Studies to Participants on the same day, and shall only post the Interconnection Feasibility Study reports to its OASIS site 10 Business Days after their delivery to Participants; and
- (d) Notwithstanding Section 6.1 of the SGIP, substitute Points of Interconnection shall not be available.

4.8 CEAP Transmission Information

The Transmission Provider shall use Reasonable Efforts to publish publicly the CEAP Transmission Information requested by the Network Customer during the consultation contemplated by Paragraph 4.2 above no later than the date on which it delivers the Interconnection Feasibility Study reports to Participants as contemplated by Paragraph

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4.7 above. The Transmission Provider shall use Reasonable Efforts to account for all pending Applications received at least 60 Calendar Days immediately prior to the CEAP IR Submission Date and all Applications for Point-to-Point Transmission Service received prior to the CEAP IR Submission Date in the CEAP Transmission Information.

4.9 Optional CEAP Studies

The Transmission Provider shall use Reasonable Efforts to complete and report on the Optional CEAP Studies requested by the Network Customer within 26 weeks of the CEAP IR Submission Date. The Network Customer may not request Optional CEAP Studies that cannot be reasonably completed by the Transmission Provider within that 26-week period. If the Optional CEAP Studies require the use of information contained in the CEAP IRs, the Network Customer must obtain the Participants' consent to the use of such information in the Optional CEAP Studies.

4.10 Selection of Successful Participants

Within 30 weeks of the CEAP IR Submission Date or 4 weeks after receipt by the Network Customer of the Optional CEAP Studies, whichever is later, the Network Customer shall provide written notice to the Transmission Provider of the Successful Participants and shall submit an Application for a modification of its NITS to address the following, and only the following, matters:

- (a) designating the Successful Participants as Network Resources in accordance with Section 29 of the Tariff; and
- (b) as necessary to reflect the selection by the Network Customer as part of the same CEAP of D-Connected CEAP Generators in respect of which the Network Customer is reasonably likely to contract for the supply of power.

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If the Network Customer provides such notice and submits such an Application the CEAP IRs of Participants other than Successful Participants will be deemed withdrawn pursuant to Section 3.6 of the SGIP. If the Network Customer fails to provide such notice or fails to make such an Application all Participants' CEAP IRs will be deemed withdrawn pursuant to Section 3.6 of the SGIP.

4.11 Timing of Combined Study Agreement

Notwithstanding Section 7.1 of the SGIP, the Transmission Provider shall only tender a Combined Study Agreement to Successful Participants. Transmission Provider shall tender a Combined Study Agreement to a Successful Participant no later than seven Calendar Days after the Transmission Provider receives the Network Customer's written notice of the Successful Participants pursuant to Paragraph 4.10 above. If a Successful Participant fails to return an executed Combined Study Agreement and deposit as required by Section 7.2 of the SGIP to the Transmission Provider within 30 Calendar Days of its tender, the Successful Participant's CEAP IR will be deemed withdrawn pursuant to Section 3.6 of the SGIP.

4.12 Deemed Withdrawal of CEAP IR

The CEAP IRs of any Participant that is no longer eligible to participate in the CEAP for any reason, or any Participant that does not comply with the requirements of this Attachment M-2, will be deemed withdrawn pursuant to Section 3.6 of the SGIP.

4.13 Standards of Conduct Prevail

Except as specifically provided for herein, nothing herein shall detract from or limit the Transmission Provider's obligations to comply with its Standards of Conduct.

5. Multiple CEAPs

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Subject to any relief obtained by a Network Customer pursuant to Paragraph 7.1, if a Network Customer issues or commences a CEAP with a CEAP IR Submission Date less than one year after the CEAP IR Submission Date of any other CEAP issued or commenced by that Network Customer, then:

- Section 4 of this Attachment M-2, as modified by paragraphs (b) to (f) below, will apply in respect of the second CEAP, and Section 6 of this Attachment M-2 will not apply in respect of the second CEAP;
- (b) The Transmission Provider will not consider any of the CEAP IRs in connection with the second CEAP in any System Impact Study, Facilities Study or Interconnection Study commenced before the Transmission Provider receives the Network Customer's written notice of the Successful Participants pursuant to Paragraph 4.10 above in connection with the second CEAP;
- (c) When received by the Transmission Provider, the Network Customer's Application for a modification to its NITS pursuant to Paragraph 4.10 above in connection with the second CEAP will have a deemed service priority as though it had been received at 12:00 AM on the second CEAP's CEAP IR Submission Date, immediately after the CEAP IRs in connection with the second CEAP;
- (d) Where as a result of Paragraph 5(b) or Paragraph 5(c), a restudy of any:
 - System Impact Study or Facilities Study completed in connection with any Application with a lower service priority to the Network Customer's Application for a modification to its NITS pursuant to Paragraph 4.10 above in connection with the second CEAP; or

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 ii. Interconnection Study completed in connection with any Interconnection Request with a lower Queue Position than the CEAP IRs in connection with the second CEAP,

is or would be necessary, then in respect of such Interconnection Request or Application:

- iii. the Network Customer will indemnify and save harmless the Transmission Provider, and the Interconnection Customer associated with such Interconnection Request or the Transmission Customer associated with such Application as applicable, from and against:
 - A. all restudy costs; and
 - B. the costs of the Interconnection Facilities or Direct Assignment
 Facilities, as applicable, identified by the restudy to the extent
 they: (x) are incremental to the costs of the Interconnection
 Facilities or Direct Assignment Facilities, as applicable, identified
 by the original study; and (y) arise as a result of Paragraph 5(b) or
 Paragraph 5(c); and
- iv. notwithstanding anything else contained in the Tariff, the Network Customer <u>may be required</u> and <u>not</u> such Interconnection Customer or such Transmission Customer, as applicable, will<u>not</u> be required to post Security in respect of the costs of any Network Upgrades identified by the restudy to the extent they: (x) are incremental to the costs of the Network Upgrades identified by the original study; and (y) arise as a result of Paragraph 5(b) or Paragraph 5(c);

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- (e) Where the Transmission Provider has not completed sufficient study work in respect of a pending Interconnection Request or Application by the second CEAP's CEAP IR Submission Date to identify its impacts to the Transmission System, the Transmission Provider will not consider such Application or Interconnection Request in any of the Interconnection Feasibility Studies or Optional CEAP Studies it conducts in connection with the second CEAP; and
- (f) Where after completing sufficient study work in respect of a pending Interconnection Request or Application referred to in Paragraph 5(e) a restudy of a CEAP IR in connection with the second CEAP is or would be necessary then in respect of such CEAP IR:
 - the Network Customer will indemnify and save harmless the Transmission Provider, and the Interconnection Customer associated with such CEAP IR from and against:
 - A. all restudy costs; and
 - B. the costs of the Interconnection Facilities identified by the restudy to the extent they: (x) are incremental to the costs of the Interconnection Facilities identified by the original study; and (y) arise as a result of the completed study work in respect of a pending Interconnection Request or Application referred to in Paragraph 5(e); and
 - ii. notwithstanding anything else contained in the Tariff, the Network
 Customer <u>may be required</u> and not-such Interconnection Customer will
 <u>not</u> be required to post Security in respect of the costs of any Network
 Upgrades identified by the restudy to the extent they: (x) are incremental

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to the costs of the Network Upgrades identified by the original study; and (y) arise as a result of the completed study work in respect of a pending Interconnection Request or Application referred to in Paragraph 5(e).

6. **Processing Other Service Requests**

6.1 Processing of Interconnection Requests with Lower Queue Positions

Notwithstanding Section 6.1 of the SGIP, the Transmission Provider shall not tender an Interconnection Feasibility Study Agreement to any Interconnection Customer with an Interconnection Request with a lower Queue Position than the CEAP IRs until the earlier of:

- (a) the Network Customer's selection of the Successful Participants; and
- (b) a determination by the Transmission Provider that: (i) none of the CEAP IRs could affect the Interconnection Study results of such Interconnection Request with the lower Queue Position; and (ii) no Interconnection Request with a higher Queue Position in respect of which the Transmission Provider has not yet tendered an Interconnection Feasibility Study Agreement could affect the Interconnection Study results of such Interconnection Request with the lower Queue Position.

6.2 Processing of Transmission Requests

Notwithstanding Part II and Part III of the Tariff, all Applications received by the Transmission Provider from and after the CEAP IR Submission Date until the Network Customer submits its Application for a modification to its NITS pursuant to Paragraph 4.10 above shall be deemed to have been received by the Transmission Provider, in the same order as originally received by the Transmission Provider, but immediately after

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the Network Customer's Application for a modification to its NITS made pursuant to Paragraph 4.10 above or, if no such Application is made, then beginning at 12:00 AM on the date such Application was to have been made, provided however, where the Transmission Provider is able to determine based on:

- (a) the CEAP IRs and corresponding Interconnection Feasibility Studies;
- (b) any studies completed by the Transmission Provider at the Network Customer's request in respect of D-Connected CEAP Generators; and
- (c) Applications with a higher service priority,

that the processing of such an Application will not affect the System Impact Study results or Facilities Study results of:

- (d) the Network Customer's Application for a modification to its NITS pursuant to Paragraph 4.10; or
- (e) all Applications with a higher service priority whose processing has been delayed because of this Paragraph 6.2,

the Transmission Provider shall process such Application in accordance with the Tariff.

7. Relief from Requirements of this Attachment M-2

7.1 Application to the Commission for Relief

A Network Customer may apply to the Commission for relief from one or more of the requirements contained in this Attachment M-2 where a variance serves the broader public interest.

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ATTACHMENT N

Deferral Credits for Long Term Point-To-Point Customers Who Participate in a Dispatch Option During Critical Peak Periods

1. Eligibility

This Deferral Credit only applies to an Interconnection Customer (Customer) that: (i) applies for interconnection of a new or refurbished Generating Facility that has not achieved Commercial Operation prior to the effective date of this Attachment, and that results in net generating capacity in excess of the highest net generating capacity provided by existing facilities at that location in the most recent five years; and (ii) enters into a Dispatch Option with the Transmission Provider with respect to that Generating Facility.

2. Definitions

- (a) System Plan Network Upgrade has the same meaning as in Attachment O.
- (b) Dispatch Option is an agreement between <u>BCTCBC Hydro</u> and the Customer, under which the Transmission Provider may dispatch a Generating Facility during critical peak periods to provide additional capacity on the transmission system

3. Deferral Credit Calculation

(a) The Deferral Credit is the larger of zero or:

$$DC = 0.75 \times (O - N - E)$$

Where

DC = Deferral Credit

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- O = the present value of the estimated cost of the Transmission
 Provider's System Plan Network Upgrades including the Customer's
 PTP service without a Dispatch Option.
- N = the present value of the estimated cost of the Transmission
 Provider's System Plan Network Upgrades that, in the judgment of
 the Transmission Provider acting reasonably, would be required with
 the Customer's Dispatch Option.
- E = the present value of any incremental operating and maintenance expenses occasioned by the change in the System Impact Study due to Customer's PTP service.

The interest rate used for discounting costs will be the prevailing discount rate used in the Transmission Provider's most recent System Plan.

- (b) The calculations in section 3(a) shall be conducted with the following conditions.
 - The present value for N and O are calculated over the term of the Dispatch Option, except where the deferral of System Plan Network Upgrades results in deferred expenditures beyond the Dispatch Option's term, in which case the present value period shall be extended until the date the System Plan indicates those deferred expenditures will be incurred.
 - The timing of the construction of System Plan Network Upgrades used for O shall reflect the timing of construction contemplated by the Transmission Provider's System Plan but adjusted for the impacts of any PTP contracts that the Transmission Provider has issued since the date of the last System Plan.

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4. Deferral Credit Payments

- (a) Customer will receive a monthly Deferral Credit equal to its bill for PTP transmission services in connection with the output of the Generating Facility that is the subject of the Dispatch Option on the LTF PTP rate schedule excluding the costs of scheduling, losses and ancillary services.
- (b) The Transmission Provider will reduce the balance of the outstanding Deferral Credit by the amount credited to the Customer on its bill.
- (c) As long as the Customer continues to take LTF PTP service in connection with the output of the Generating Facility that is the subject of the Dispatch Option, the Customer will continue to receive a Deferral Credit until the balance of the Deferral Credit is reduced to zero.
- (d) The Transmission Provider will compute and provide an initial forecast of the time required to amortize and reduce the entire amount of the Deferral Credit as provided for herein to zero. The Transmission Provider will track remaining credit balances for all Customers and notify them of material changes in the amortization period due to LTF PTP rate changes.
- (e) If a Customer is entitled to Deferral Credits and has provided the Transmission Provider security for Network Upgrades in connection with Attachment O, the Transmission Provider will apply the Deferral Credits against the Customer's transmission service bill, and reduce amount of the Security by an equivalent amount. That reduction is in addition to any reduction in the amount of the Security that the Customer is entitled to pursuant Section III.D.3 of Attachment O for any portion of the Customer's transmission service bill actually paid by the Customer.

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(f) If the Transmission Provider determines, through its sole judgment, that the Customer does not meet the operating characteristics or fails to meet performance requirements necessary to support the deferral of System Plan Network Upgrades, the Transmission Provider may suspend or cancel the application of the monthly Deferral Credit.

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ATTACHMENT O

<u>–</u>Recovery of New Facilities Costs

I. Development of System Plan

The Transmission Provider will develop an annual System Plan to assure that sufficient transmission capacity exists to serve all Long-Term Firm Point-to-Point (LTF PTP) Service and Network Integration Transmission Service (NITS) commitments.

The annual System Plan will be developed based on current NITS and LTF PTP Service commitments with their rollover rights and the annual load forecast provided by the Network Customer as required by Section 31.6 of this Tariff.

II. Definitions

Capitalized words not defined in this Section II of Attachment O shall be given the meanings ascribed to them elsewhere in this Tariff.

A. Direct Assignment Facilities

Direct Assignment Facilities are facilities or portions of facilities that are constructed by the Transmission Provider for the sole use/benefit of a particular Transmission Customer requesting service under the Tariff. Direct Assignment Facilities shall be specified in the Service Agreement that governs service to the Transmission Customer and may be subject to Commission approval.

B. Transmission Provider Interconnection Facilities

Transmission Provider Interconnection Facilities are all facilities and equipment owned, controlled or operated by the Transmission Provider from the Point of

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Change of Ownership to the Point of Interconnection as identified in Appendix A of the Standard Generator Interconnection Agreement (SGIA) with any generator, including any modifications, additions or upgrades to such facilities and equipment. Transmission Provider's Interconnection Facilities are sole use facilities and shall not include Stand Alone Network Upgrades or Network Upgrades.

C. System Plan Network Upgrades

System Plan Network Upgrades are modifications or additions to transmissionrelated facilities that are integrated with and support the Transmission Provider's overall Transmission System for the general benefit of all users of such Transmission System identified in the development of the System Plan as necessary to maintain reliable service for long-term firm service commitments including:

- LTF PTP Services, including import, export and flow through services; and
- NITS, as required to accommodate expected load growth, but excluding Network Upgrades identified in NRIS Interconnection Studies.
- D. Network Upgrades

Network Upgrades are modifications or additions to transmission-related facilities that are not System Plan Network Upgrades. Network Upgrades for:

 LTF PTP Service is defined in Section 1.26 of Terms and Conditions in the OATT.

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- 2. Energy Resource Interconnection Service (ERIS) is defined in Section 1 of Attachment M-1 to the OATT.
- Network Resources Interconnection Service (NRIS) is defined in Section 1 of Attachment M-1 to the OATT.

III. Cost Recovery

A. Direct Assignment Facilities

The Transmission Customer shall pay the costs of Direct Assignment Facilities.

B. Transmission Provider's Interconnection Facilities

The Interconnection Customer shall pay the costs of Transmission Provider's Interconnection Facilities.

C. System Plan Network Upgrades

The costs of System Plan Network Upgrades are recovered through transmission rates for PTP and NITS.

- D. Network Upgrades
 - 1. Funding of Network Upgrades

The Transmission Provider shall fund Network Upgrades.

- 2. Provision of Revenue Guarantee for Network Upgrades
 - (a) Transmission Customers shall provide Transmission Provider with security for the Network Upgrades in the form of a standby

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irrevocable letter of credit or other form of security that is reasonably acceptable to Transmission Provider ("Security") in accordance with Section 19.4 or Section 32.4 of OATT. Interconnection Customers shall provide Security for Network Upgrades in accordance with Article 11.5 of the SGIA. Notwithstanding the above and notwithstanding Section 19.4 and Section 32.4 of OATT and Article 11.5 of the SGIA, if the Transmission Customer or Interconnection Customer is the Transmission Owner BC Hydro, then no security for Network Upgrades is required under Section 19.4 or Section 32.4 of OATT or Article 11.5 of the SGIA.

- (b) Such Security shall be granted in favour of Transmission Provider and Transmission Owner and shall be in a sufficient amount which may be revised from time to time to cover the costs for designing, constructing, procuring and installing the Network Upgrades.
- (c) Such Security must be made by an entity that meets the creditworthiness requirements of Transmission Provider, or issued by a financial institution reasonably acceptable to Transmission Provider. If the entity making the Security ceases to meet the creditworthiness requirements of the Transmission Provider or the financial institution issuing the security ceases to be reasonably acceptable to the Transmission Provider, then the Transmission Customer shall provide a new form of security that meets the Transmission Provider's requirements, as stated above, within 30 Calendar Days of notice being provided to the Transmission Customer.

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- (d) The Security will be held for a period and reduced by the Transmission Provider in accordance with Section III.D.3 of this Attachment O.
- (e) The Transmission Customer or Interconnection Customer will be responsible for the costs of arranging for and maintaining the Security.
- (f) The Transmission Provider will not pay interest on the amount on the Security.
- 3. Release of and Reducing Outstanding Balance of Security
 - (a) LTF PTP Service
 - (i) The Transmission Provider shall reduce the outstanding balance of the Security by an amount equal to the Transmission Customer's payment for transmission services on the LTF PTP rate schedule excluding the costs of scheduling, losses and ancillary services. Subject to paragraphs (ii) and (iii) below, the Transmission Provider will continue to reduce the outstanding balance of the Security by the Transmission Customer's payment for service until the balance becomes zero.
 - (ii) If the Transmission Customer terminates its Service Agreement, the Transmission Provider may call on the full outstanding balance of the Security at that time.

	(b) ERIS	
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- (i) If LTF PTP Service is purchased to transmit output from the Generating Facility receiving ERIS pursuant to the same SGIA pursuant to which the Security was provided, the Transmission Provider will, subject to paragraphs (ii) and (iii) below, reduce the outstanding amount of the Security in accordance with Section III.D.3.(a) of this Attachment O.
- (ii) If the Interconnection Customer terminates the SGIA or the Interconnection Customer's Generating Facilities fails to achieve Commercial Operation within 3 years of the target date for Commercial Operation set out in Appendix B of the SGIA, the Transmission Provider may call on the full outstanding balance of the Security at that time.

(c) NRIS

 (i) If Interconnection Customer's Generating Facility is designated as a Network Resource, the Transmission Provider will, subject to paragraph (ii) below, at the end of each calendar year beginning with the calendar year during which the Generating Facility achieves Commercial Operation, agree to a reduction in the then outstanding amount of the Security by an amount equal to the capacity of the Generating Facility designated as a Network Resource during that calendar year multiplied by the LTF PTP rate, excluding the costs of scheduling, losses and ancillary services.

ancillary services.		
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- (ii) If the Interconnection Customer terminates the SGIA or the Interconnection Customer's Generating Facility fails to achieve Commercial Operation within 3 years of the target date for Commercial Operation set out in Appendix B of the SGIA, the Transmission Provider may call on the full outstanding balance of the Security at that time.
- (iii) If Interconnection Customer's Generating Facility is not or ceases to be designated as a Network Resource, Transmission Provider shall deal with the Security in accordance with Section III.D.3.(b) of this Attachment O.

(d) Security Balance Information

The Transmission Provider will compute and provide to each Transmission Customer or Interconnection Customer, as applicable, an initial forecast of the time required to reduce the entire amount of the Security to zero. The Transmission Provider will track remaining credit balances for all Transmission Customers and Interconnection Customers and notify them of material changes in the length of time required to reduce the outstanding balance of the Security to zero due to LTF PTP rate changes.

4. **Multiple Securities**

> Where Transmission Customer or Interconnection Customer causes Network Upgrades for more than one service, the Transmission Customer may consolidate the Securities required for each Network Upgrade into

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one with an amount equals to sum total of the Network Upgrade costs incurred.

- E. Clustering and Open Season
 - 1. Interconnection

Pursuant to Section 4.2 of SGIP, the Transmission Provider may elect to study Interconnection Requests using Clustering. In Clustering, the Transmission Provider may allocate the costs of Network Upgrades identified in the Interconnection Facilities Study arising out of Clustering between or among the Interconnection Requests subject to the Clustering on a pro rata basis relative to the maximum output of the Generating Facilities that are the subject of the Interconnection Requests. The Interconnection Customers of these Generating Facilities shall provide Security in the same amount of their respective allocated Network Upgrade costs. The Transmission Provider may reduce the amount of the Security as described in Section III.D.3.(b) or III.D.3.(c) of this Attachment.

2. LTF PTP

Pursuant to Section 15.8 of the OATT, the Transmission Provider may elect to study LTF PTP service requests in an Open Season process. The Transmission Provider may allocate costs of Network Upgrades identified in the Facilities Study arising out of the Open Season process to Transmission Customers on a pro rata basis relative to the capacity requested by each Transmission Customer, after having deducted, for any Transmission Customer, any requested capacity that has been

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accommodated by any available transmission capability identified in the System Impact Study and allocated to that Transmission Customer in accordance with Section 15.8 and Section 15.9. The Transmission Customers shall provide Security in the same amount as their respective allocated Network Upgrade costs. The Transmission Provider may reduce the amount of the Security as described in Section III.D.3.(a) of this Attachment.

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ATTACHMENT P

<u>–</u>Contingency Resource Plans (CRP) and Release of Capacity Not Required _by Network Integration Transmission Service (NITS)

1. Reservation of ATC for Network Customer's Contingency Plans

The Network Customer may include high and low load forecast scenarios and resource plan contingencies approved by the Commission (together "Contingency Resource Plans") in its Network Integration Transmission Service (NITS) Application. In addition to the information requirements of Section 29.2 of the Tariff, the Network Customer will provide the expected in service date and, to the extent possible, other information described in Section 29.2(e) for the forecast generation resources included in its Contingency Resource Plans.

The Transmission Provider will treat such application as one service request. If there is sufficient ATC to meet the Network Customer's service request which includes the Contingency Resource Plans, the Transmission Provider will reserve the transmission capacity for the Network Customer's service request in accordance with the queue priority of the Network Customer's NITS Application. If there is insufficient ATC to meet the Network Customer's service request, the Transmission Provider will conduct transmission studies in accordance with the Tariff and identify Network Upgrades for each load forecast scenario and for each resource plan contingency separately.

2. Planning for Forecast Load Growth and Contingency Resource Plans of Network Customers

Pursuant to Section 31.6 of this Tariff, Network Customers are required to provide annual updates of Network Load and Network Resource forecasts. The Network

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Customer may also revise the expected in service dates of the forecasted generation resources identified in the Network Customer's Contingency Resource Plan. The Transmission Provider will perform an annual evaluation of the capability of the Transmission System to reliably accommodate these new forecasts in addition to ongoing Firm Point-to-Point Transmission Service and other Network Integration Transmission Service obligations. In the event that this evaluation determines that there is insufficient capacity to meet the forecast needs of all Network Customers along with the ongoing rights of existing Firm Point-to-Point Transmission Service customers, the Transmission Provider will use the following process to resolve these competing requests for Transmission Service to serve reasonably forecast needs:

- 2.1 The Transmission Provider will annually request 10-year load forecasts and Network Resources (current and projected) in accordance with Section 31.6 of this Tariff.
- 2.2 The Transmission Provider will model reasonable forecast loads, current Network Resources and Contingency Resource Plans, and Firm Point-to-Point Transmission Service commitments, including rollover rights, where not previously limited covering the planning horizon (10 years) to determine whether there is sufficient ATC in the planning horizon to accommodate these existing and forecast commitments.
- 2.3 If the Transmission System is over-committed, the Transmission Provider will determine whether additional Network Upgrades are required and whether a revision of the current construction schedule for currently planned Network Upgrades is needed.
- 2.4 The Transmission Provider will determine the costs of any additional required Network Upgrades and provide the Network Customer with the revised estimated costs and construction schedule of the additional Network Upgrades and currently planned Network Upgrades.

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- 2.5 The Transmission Provider will allocate the responsibility for the costs of Network Upgrades in accordance with Attachment O to this Tariff.
- 2.6 If the Transmission Provider determines that the Transmission System would be overcommitted before appropriate Network Upgrades can be constructed, the Transmission Provider will inform the Network Customer that Network Resource designation of the forecasted generation resources identified in the Network Customer's Contingency Resource Plans will not be possible until the Network Upgrade are complete.

3. Release of Unused Capacity Reserved for Network Customer

As described in Section 2 of this Attachment P, the Transmission Provider will plan the Transmission System to meet the needs of the Network Customers as defined by the information in the 10 year annual forecast including any requirements for the Network Customer's Contingency Resource Plans. The capacity reservation associated with previously identified load forecasts and Contingency Resource Plans is queued at the time of the forecast submittal, but is released for use by other customers until it is required by the Network Customer. In order to make available to other customers capacity that will not be needed to serve the Network Customer's load from the forecasted generation resources in Network Customer's Contingency Resource Plans, the Network Customer must designate such forecasted generation resources as Network Resources pursuant to Section 30.2 of the Tariff, at least sixty (60) Calendar Days in advance of the previously identified expected in service date in the forecast by an OASIS request. If the Network Customer does not do so, the associated ATC for the next sixty (60) Calendar Days will be released to the market.

When evaluating new requests for Firm Point-to-Point Transmission Service, the Transmission Provider will make transmission capacity available to Point-to-Point

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Customers until such time as that capacity is needed to serve the existing Network Customer's load. The determination of ATC will be based on prior commitments and the annual submittals by Network Customers of forecast network load, Network Resources and Contingency Resource Plans.

If at the time of a request for new Firm Point-to-Point Transmission Service the Transmission Provider determines that sufficient transmission capacity will not be available to accommodate both the forecast load growth and Contingency Resource Plans of existing Network Customers, and the new request for Point-to-Point Transmission Service beyond the term of the request, the Service Agreement for the Point-to-Point Transmission Service request will reflect this limitation to the rollover rights of the new service.

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ATTACHMENT Q-1

– Dynamic Scheduling

This attachment contains the eligibility requirements and the terms and conditions for the provision of dynamic scheduling to Transmission Customers.

1. Definitions

- (a) "AGC" means Automatic Generation Control.
- (b) "Dynamic Scheduling Business Practices" means the Transmission Provider's published Dynamic Scheduling Spinning Reserve, Dynamic Scheduling Contingency Reserve and Dynamic Scheduling Regulation Reserve business practices, as amended or replaced from time to time.
- (c) "Dynamic Schedule" means a telemetered reading or value that is updated in real-time and is used as a schedule in the Transmission Provider's AGC and Area Control Error equation. The integrated value is treated as a schedule for interchange accounting purposes.
- (d) "Dynamic Scheduling Energy" means regulating energy or energy delivered from operating reserves.
- (e) "Dynamic Scheduling Transmission" means firm hourly transmission used for the real-time delivery of Dynamic Scheduling Energy to the Receiving Balancing Authority Area and consists of Dynamic Scheduling Spinning Reserve (DSSpinRes), Dynamic Scheduling Contingency Reserve (DSConRes) and Dynamic Scheduling Regulation Reserve (DSRegRes).

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- (f) "EMS" means Energy Management System.
- (g) "Intermediary Balancing Authority Area" means any Balancing Authority Area between the Host Balancing Authority Area and the Receiving Balancing Authority Area.
- (h) <u>"NERC" means the North American Electric Reliability Council or its successor</u> organization.<u>Reserved</u>
- (i) "Receiving Balancing Authority Area" means the Balancing Authority Area which is to dynamically receive Dynamic Scheduling Energy schedules.
- (j) "Host Balancing Authority Area" means the Balancing Authority Area which is to send Dynamic Scheduling Energy schedules from system resources within its Balancing Authority Area.
- (k) "SCADA" means Supervisory Control and Data Acquisition.
- (I) "WECC" means the Western Electricity Coordinating Council, or any successor organization.

2. Availability of Dynamic Scheduling Transmission

Dynamic Scheduling Transmission is only available as follows:

- (a) while such Dynamic Scheduling Transmission is technically feasible and consistent with all applicable <u>reliability standards adopted by the BCUC NERC</u> and WECC criteria and policies;
- (b) if the Transmission Provider's Balancing Authority Area is the Host Balancing Authority Area:

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- while the Transmission Provider has arrangements in place with applicable Intermediary Balancing Authority Areas for the facilitation by each such Intermediary Balancing Authority Area of Dynamic Scheduling Energy, as appropriate, and
- (ii) while the Transmission Provider has arrangements in place with the Receiving Balancing Authority Area for the receipt by the Receiving Balancing Authority Area of Dynamic Scheduling Energy, as appropriate; and
- (c) if the Transmission Provider's Balancing Authority Area is an Intermediary Balancing Authority Area, while the Transmission Provider has arrangements in place with the Host Balancing Authority Area, Receiving Balancing Authority Area, and any other Intermediary Balancing Authority Area for the delivery, receipt, and facilitation of Dynamic Scheduling Energy, as appropriate.

3. Eligibility Requirements

To be eligible to designate Dynamic Scheduling Transmission, a Transmission Customer must satisfy the following eligibility requirements.

- (a) The Transmission Customer must satisfy the requirements of the Receiving Balancing Authority Area with respect to the delivery of Dynamic Scheduling Energy into the Receiving Balancing Authority Area.
- (b) The Transmission Customer must satisfy the requirements of Intermediary Balancing Authority Area(s) with respect to Dynamic Scheduling Energy and arrangement of appropriate transmission services through the Intermediary Balancing Authority Area.

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- (c) The Transmission Customer must satisfy the requirements and standards of the Transmission Provider with respect to dynamic scheduling from the Transmission Provider's Balancing Authority Area, as those requirements and standards are described from time to time in this Attachment Q-1 and the Dynamic Scheduling Business Practices.
- (d) The Transmission Customer shall be responsible for all costs related to its own systems and equipment required to dynamically schedule, such as communications equipment, communication circuits and facility upgrades.
- (e) The Transmission Customer must have sufficient resources of the appropriate type available and ready to be delivered in the scheduled period from a resource or resources for dynamic scheduling that are electrically located within the Transmission Provider's Balancing Authority Area must be responsive to control signals issued by the Transmission Provider's EMS.
- (f) The Transmission Customer must have a Firm Point to Point Transmission Service reservation that is of equal or greater duration and capacity than the duration and capacity designated by the Transmission Customer as Dynamic Scheduling Transmission.
- (g) The Transmission Customer must comply with applicable <u>reliability standards</u> <u>adopted by the BCUC and WECC and NERC standards criteria</u> and policies.
- (h) If, at any time, a Transmission Customer fails to meet any of the eligibility requirements in this section 3, the Transmission Provider may immediately suspend the Transmission Customer's eligibility for dynamic scheduling.

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4. Relationship Between Dynamic Scheduling Transmission and Dynamic Scheduling Energy

The Transmission Customer may reserve Dynamic Scheduling Transmission only up to its reasonably expected share of the total capacity of Dynamic Scheduling commitments to the Receiving Balancing Authority Area. The procedures for scheduling Dynamic Scheduling Energy shall be as set out from time to time in the Dynamic Scheduling Business Practices.

5. Resale and Reassignment of Unused Dynamic Scheduling Transmission

- (a) Transmission Customers cannot resell or reassign any reserved transmission capacity during the time, and to the extent, that it is designated for Dynamic Scheduling Transmission.
- (b) The Transmission Provider will not resell any reserved transmission capacity that has been designated for Dynamic Schedling Transmission.

6. Official Dispatch Signal

The Transmission Provider, as the Host Balancing Authority Area, is responsible for issuing the official dispatch signal for any dynamically scheduled resources located within its Balancing Authority Area.

7. Dispatch Instruction Data

(a) When acting as the Host Balancing Authority Area, the Transmission Provider will automatically dispatch Dynamic Scheduling Energy upon receiving the Receiving Balancing Authority Area's dispatch instruction data, based on the value of the dispatch instruction data, up to any existing constraints that might be

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in place at the time of dispatch and subject to the limitations described in section 8 of this Attachment Q-1. Receiving Balancing Authority Area's dispatch instruction data will govern provided that there are no constraints.

- (b) For the purpose of this section, the following are deemed to be constraints:
 - (i) the reliability of the Transmission System is threatened;
 - (ii) resource constraints declared by the resource owner;
 - (iii) insufficient firm transmission reservations for Dynamic Scheduling purposes; and
 - (iv) any constraints imposed by the Receiving Balancing Authority Area or any Intermediary Balancing Authority Areas on the scheduling path.
- (c) The Transmission Customer is responsible for resolving with the Receiving Balancing Authority Area any discrepancy in data between the Receiving Balancing Authority Area's dispatch instruction data and the Transmission Customer's eTag. The Transmission Customer is responsible for ensuring the accuracy and resolving any discrepancies in eTag information related to the Intermediary Balancing Authority Areas.

8. Limitations

Dynamic Schedules will be limited by the Transmission Provider's cut-off times, and by the Transmission Provider's reasonable assessment of its capabilities to process Dynamic Schedules. Dynamic Schedules will be processed on a first-come, firstreceived basis, up to the limit of the number of Dynamic Schedules that may be

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concurrently delivered and the total volume of Dynamic Scheduling Energy that may be delivered.

9. Losses

Any transmission losses attributed to the Dynamic Schedule on transmission systems external to the Transmission Provider's Transmission System will be the responsibility of the Transmission Customer.

10. Settlement Data Discrepancy

- (a) The Transmission Provider will use its own time-integrated energy value for inter-Control Area check-out and for settlement and billing purposes.
- (b) The Transmission Customer is responsible for resolving with the Receiving Balancing Authority Area any discrepancy between the time-integrated energy value used by the Transmission Provider and the time-integrated energy value provided by the Receiving Balancing Authority Area prior to sending the value to the Transmission Provider for settlement purposes.

11. Failure of Dynamic Transfer Signal or Official Dispatch Signal

- (a) If the Host Balancing Authority Area's or Receiving Balancing Authority Area's dynamic transfer signal fails, the Transmission Provider's obligation to comply with the Host Balancing Authority or Receiving Balancing Authority Area's request is automatically suspended.
- (b) If the Host Balancing Authority Area's or Receiving Balancing Authority Area's dynamic transfer signal fails or the official dispatch signal from the Transmission Provider fails, the last known value will be used for the remainder of the hour. If

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the Transmission Provider does not recover the signal by the end of the hour, the Transmission Provider will decrease the value to zero.

(c) For the purposes of this section, a signal fails if both redundant communication paths fail.

12. Suspension or Reduction in Dynamic Schedules

In addition to the limitations and constraints described in sections 7 and 8, the Transmission Provider may suspend or reduce Dynamic Schedules out of its Balancing Authority Area if:

- (a) the reliability of the Transmission System is threatened; or
- (b) the Receiving Balancing Authority Area or an Intermediary Balancing Authority Area requests that Dynamic Schedules be limited or suspended.

13. Sharing of Information

The Transmission Provider may share with the Host Balancing Authority Area, Receiving Balancing Authority Area, Intermediary Balancing Authority Areas, and reliability coordinators whatever operational information directly related to dynamic scheduling is necessary or desirable to facilitate dynamic scheduling. The foregoing information shall include such information that may be required by applicable tariff provisions and business practices and standards of any of the Host Balancing Authority Area, Receiving Balancing Authority Area, Intermediary Balancing Authority Areas, and the Transmission Provider, and shall also include such information that may be required by applicable tariff provisions and the Receiving Balancing Authority Area, Intermediary Balancing Authority Areas and the Transmission Provider to curtail dynamic schedules in accordance with its tariff, business practices, standards and applicable service agreements.

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14. Charges for Dynamic Scheduling (DS) Service

- (a) DS Service designated from Short-Term Firm service is charged in accordance with Rate Schedule 01 of OATT.
- (b) DS Service designated from Long-Term Firm service is charged in acordance with Rate Schedule 01 of OATT.
- (c) Charges for Scheduling, System Control and Dispatch will be applied in accordance with Rate Schedule 03 of OATT.

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ATTACHMENT Q-2

– Network Economy Service

1. In this Attachment:

"Market Price" means the market price for energy as determined by the Transmission Provider in a manner approved by the Commission.

"Network Economy Service" means the use of the Transmission Provider's transmission system, pursuant to section 28.4 of the Tariff, to deliver energy to its Network Loads from resources that have not been designated as Network Resources.

"Trigger Price" means the Trigger Price as determined by the Transmission Provider in a manner approved by the Commission.

- 2. Notwithstanding section 14.7 of the Open Access Transmission Tariff, for each hour in the delivery day:
 - (a) Network Economy reservations will have the priority and rights provided in section 14.7 of the Open Access Transmission Tariff only if the Market Price is less than or equal to the Trigger Price for the delivery hour; and
 - (b) If the Market Price is greater than the Trigger Price for the delivery hour, Network Economy reservations will have the same priority as Non-Firm Point-To-Point service, with the exception that the provisions of section 14.2 of the Open Access Transmission Tariff providing for reservation priority based on price shall not apply.

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The Transmission Provider will post each day on its website or OASIS by 23:59:00, whether Network Economy for each hour in the delivery day will have the priority as set out in (a) or (b).

- 3. Where a single Network Economy reservation spans multiple delivery hours, the priority assigned to the whole reservation will be that of the lowest priority hour, as determined in section 2 of this Attachment.
- 4. The Network Customer must provide the Transmission Provider with its Trigger Price in a form and at times required by the Transmission Provider, and approved by the Commission. The Network Customer may not use Network Economy service for the period in which it is reserved if the Network Customer has failed to comply with this section.
- 5. The Network Customer must, for the entirety of the reporting period, each reporting period to commence on the day after the last day of the previous reporting period and to include all full weekly reporting periods up to and including the last day of the full weekly reporting period immediately prior to the last day of the calendar month, maintain an average utilization rate of all Network Economy reservations of at least 95% of the average utilization of Daily and Hourly Non-Firm Point-To-Point service by customers, other than the Network Customer or its marketing affiliates, in pre-schedule and Real-Time, over the same reporting period. If the Network Customer's average utilization rate for Network Economy Service over the entirety of the reporting period is below 95% of that level, the Transmission Provider, commencing on the first day of the following calendar month, will curtail all unused Network Economy reservations at thirty minutes prior to the delivery hour. The Network Customer may subsequently reserve additional Network Economy service. These new reservations will have the same priority as provided in section 2(b) of this Attachment. If the average utilization of all Network

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Economy reservations over the entirety of the reporting period, each reporting period to commence on the day after the last day of the previous reporting period and to include all full weekly reporting periods up to and including the last day of the full weekly reporting period immediately prior to the last day of the calendar month, increases to at least 95% of the average utilization of Daily and Hourly Non-Firm Point-To-Point service by customers, other than the Network Customer or its marketing affiliates, in preschedule and Real-Time for the same reporting period, then commencing on the first day of the following calendar month the Transmission Provider will curtail all unused Network Economy reservations in accordance with the Transmission Provider's Business Practices.

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ATTACHMENT Q-3

-Spinning Reserve and Contingency Reserve Transmission Service

This attachment contains additional terms and conditions applicable to Spinning Reserve Transmission Service and Contingency Reserve Transmission Service, which may used by Transmission Customers for the purpose of scheduling Spinning Reserves or Contingency Reserves from generation resources inside the Transmission Provider's Balancing Authority to other Balancing Authorities.

1. Definitions

- (a) "Contingency Reserve" means an amount of spinning and non-spinning reserve, sufficient to reduce area control error (ACE) to zero within ten minutes.
- (b) "Contingency Reserve Transmission Service" means hourly Firm Point-To-Point Transmission Service used for the delivery of Contingency Reserves out of the Transmission Provider's Balancing Authority.
- (c) "EMS" means Energy Management System.
- (d) "eTag" means an electronic documentation of an energy transaction, including the Point of Delivery, Point of Receipt, transmission path, transmission contracts, capacity profiles and parties.
- (e) "Non-Spinning Reserve" means the portion of off-line generating capacity which is capable of being loaded in 10 minutes and which is capable of running for at least two hours.

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- (f) "Receiving Balancing Authority" means the Balancing Authority to receive Spinning Reserves or Contingency Reserves from generation resources within the Transmission Provider's Balancing Authority.
- (g) "Spinning Reserve" means the portion of unloaded synchronized generating capacity which is capable of being loaded in 10 minutes and which is capable of running for at least two hours.
- (h) "Spinning Reserve Transmission Service" means hourly Firm Point-To-Point Transmission Service used for the delivering of Spinning Reserves out of the Transmission Provider's Balancing Authority.

2. Availability

Spinning Reserve Transmission Service and Contingency Reserve Transmission Service are available only for exports out of the Transmission Provider's Balancing Authority.

3. Eligibility

- (a) The Transmission Customer must have a Firm Point-to-Point Transmission Service reservation that is of equal or greater duration and capacity than the duration and capacity that is designated by the Transmission Customer as Spinning Reserve Transmission Service or Contingency Reserve Transmission Service.
- (b) The Transmission Customer must satisfy the requirements of the Receiving Balancing Authority with respect to the delivery of Contingency Reserves or Spinning Reserves into the Receiving Balancing Authority.

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(c) The Transmission Customer's generation resource must be responsive to control signals issued by the Transmission Provider's EMS in the scheduled period for the Contingency Reserve Transmission Service or Spinning Reserve Transmission Service.

4. Designating and Scheduling

The Transmission Customer may designate all or a portion of its Firm Point-To-Point Transmission Service reservation to Contingency Reserve Transmission Service or Spinning Reserve Transmission Service on an hourly basis.

5. Revert Back, Resale and Reassignment of Unused Spinning Reserve Transmission Service or Contingency Reserve Transmission Service

- (a) At the Transmission Customer's request prior to the scheduled hour, the Transmission Provider will revert Firm Point-To-Point Transmission Service that has been designated for Spinning Reserve Transmission Service or Contingency Reserve Transmission Service, for the scheduled hour, back to the original Firm Point-to-Point Transmission Service reservation.
- (b) Notwithstanding section 23.1 of the Tariff, the Transmission Customer cannot resell or reassign any of its rights under its Service Agreement or Umbrella Agreement during the time, and to the extent, that such rights have been designated as Spinning Reserve Transmission Service or Contingency Reserve Transmission Service.
- (c) The Transmission Provider will not sell Firm Point-To-Point Transmission Service that is designated as Spinning Reserve Transmission or Contingency Reserve Transmission Service as unused Reserved Capacity in real-time.

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6. Dispatch Instruction Data

- (a) The Transmission Provider will automatically dispatch Contingency Reserve Transmission Service or Spinning Reserve Transmission Service upon receiving the Receiving Balancing Authority's dispatch instruction data, based on the value of the dispatch instruction data, up to any existing constraints that might be in place at the time of dispatch.
- (b) For the purpose of this section, a constraint exists if:
 - (i) the reliability of the Transmission System is threatened;
 - the owner of the generation resource declares that there is a resource constraint;
 - (iii) there is an insufficient Firm Point-To-Point Transmission Service reservation for the Contingency Reserve Transmission Service or Spinning Reserve Transmission Service; or
 - (iv) the Receiving Balancing Authority imposes a constraint on the scheduled path.
- (c) The Transmission Customer is responsible for resolving with the Receiving Balancing Authority any discrepancy in data between the Receiving Balancing Authority's dispatch instruction data and the Transmission Customer's eTag.

7. Charges for Contingency Reserve and Spinning Reserve Transmission Service

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- Contingency Reserve and Spinning Reserve Transmission Service scheduled upon Short-Term Firm Service is charged in accordance with Rate Schedule 01 of OATT.
- (b) Contingency Reserve and Spinning Reserve Transmission Service scheduled upon Long-Term Firm Service is charged in accordance with Rate Schedule 01 of OATT.
- (c) Charges for Scheduling, System Control and Dispatch will be applied in accordance with Rate Schedule 03 of OATT.

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ATTACHMENT Q-4

– Mixed Class Wheelthrough Service

This Attachment contains additional terms and conditions applicable to Mixed Class Wheelthrough Service, which may be used by Transmission Customers for the purpose of scheduling electricity from the US to Alberta.

1. Definition

Mixed Class Wheelthrough Service is a Short-Term Point-To-Point Transmission Service on the US to Alberta path consisting of the following two Transmission Services, combined into one transmission reservation on OASIS (Point of Receipt at BC.US Border and Point of Delivery at AB.BC), of equal amount and duration: (1) a firm service on the US to BC path; and (2) a non-firm service on the BC to Alberta path.

2. Availability

Mixed Class Wheelthrough Service is only available for transactions from the US to Alberta using BC as a wheelthrough.

3. Terms and Conditions

(a) Displacement

Each path segment of the reservation of a Mixed Class Wheelthrough Service may be displaced as described in sections 13.2 and 14.2 of the Tariff. Notwithstanding those provisions, if either of the path segments of a Mixed Class Wheelthrough Service is displaced, the other path segment will also be displaced.

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(b) Curtailment

Each path segment of the reservation of a Mixed Class Wheelthrough Service may be curtailed in accordance with sections 13.6 and 14.7 of the Tariff. Notwithstanding those provisions, if either of the path segments of a Mixed Class Wheelthrough Service is curtailed, the other path segment will be curtailed by an equal amount.

(c) Changes in Service Specifications

Notwithstanding section 22.1 of the Tariff, for Mixed Class Wheelthrough Service, the Transmission Customer may not request modifications to the Point of Receipt and Point of Delivery specified in the Service Agreement or Umbrella Agreement.

(d) Resale or Reassignment of Mixed Class Wheelthrough Service

Notwithstanding section 23 of the Tariff, Mixed Class Wheelthrough Service may only be resold as Mixed Class Wheelthrough Service.

4. Charges

The transmission rate for Mixed Class Wheelthrough Service shall be in accordance with Rate Schedule 01-of Attachment L of the Tariff.

5. Unauthorized Use

Use of the Mixed Wheelthrough service for transactions other than from the US to Alberta using BC as a wheelthrough is an unauthorized use of Mixed Class Wheelthrough Service. Pursuant to Schedule 01-of Attachment L of the Tariff, a penalty charge will be applied at the rate of 125 percent of the Reserved Capacity Charge for the

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Firm Point-to-Point Transmission Service on the US to BC path segment. In addition, the customer will be billed all applicable Transmission Service and Ancillary Service charges for the entire duration of the Non-Firm Point-To-Point Transmission Service on the BC to Alberta path segment.

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ATTACHMENT Q-5

— Wheeling Rights Under FortisBC Inc.'s Tariff Supplement No. 9

The term "Transmission System" in the Tariff includes the facilities over which <u>BCTCBC Hydro</u> has the right to wheeling services (the "Wheeling Facilities") in accordance with FortisBC Inc.'s Tariff Supplement No. 9 (the "FortisBC Tariff"). Pursuant to section 29.2 and 31 of the Tariff and in its Service Agreement, the Network Customer may specify the "Point of Delivery," as that term is defined in the FortisBC Tariff, as a delivery point for Network Integration Transmission Service to Network Loads. Pursuant to section 28.2 of the Tariff, the Transmission Provider shall provide Network Integration Transmission Service to the Network Customer's designated load at the "Point of Delivery," as that term is defined in the FortisBC Tariff, and in doing so the Transmission Provider may use the Wheeling Facilities in accordance with the Wheeling Agreement. However, <u>BCTCBC Hydro</u> has no right or obligation regarding the Wheeling Facilities that is not in accordance with the FortisBC Tariff, including any right or obligation to plan, construct, upgrade, operate, or maintain the Wheeling Facilities.

The amounts paid by the Transmission Provider pursuant to Sections 6.1 and 6.3 of the FortisBC Tariff will be recovered on the same basis as System Plan Network Upgrades as defined in Attachment O of the Tariff.

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SCHEDULESchedule 00

-Network Integration Transmission Service

Availability	For wholesale transmission of electricity.	
Rate	Monthly Transmission Revenue Requirement:	
	Customers will be charged their load ratio share of one twelfth (1/12th) of the Network Transmission Revenue Requirement per month. The Transmission Revenue Requirement is shown in Attachment H. One-twelfth of the Transmission Revenue Requirement is \$42,825,000.	
Taxes	The Rate and Charges contained herein are exclusive of the Goods and Services Tax and Social Service Tax.applicable taxes.	
Note	The terms and conditions under which Network Integration Transmission Service is supplied are contained in British Columbia Transmission Corporation's BC Hydro's OATT. Capitalized terms appearing in this Schedule, unless otherwise noted, shall have the meaning ascribed to them therein.	
	This rate combines the rates of the Transmission Owner under the Rate Schedule 3000 and the Transmission Provider under its Rate Schedule 100.	

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SCHEDULESchedule 01

-Point-To-Point Transmission Service

m	for transmission of electricity on a firm and non-firm basis from one or nore Point(s) of Receipt (POR) to one or more Point(s) of Delivery POD).
Firm Service wi is tra ze Th re <u>Re</u> Th PC PC	The Reserved Capacity Charge for the Long-Term Firm Service Rate vill be up to a maximum price as set out below except where the POD is a point of interconnection between the Transmission System and the ransmission system of FortisBC Inc., in which case the rate shall be ero (\$0.00). The Maximum Reserved Capacity Charge is \$47,327.88/MW of eserved capacity per year to be invoiced monthly. Reserved Capacity Billing Demand The Reserved Capacity Billing Demand is determined for each POR(s), POD(s) pair. The Reserved Capacity for each pair of POR(s) and POD(s) will be the maximum non-coincident sum of the designated POR(s) and POD(s) included in the pair.

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Schedule 01 – Point-To-Point Transmission Service (continued)

Rate for Short-Term Firm and Non-Firm Service	The posted prices for Short-Term Firm and Non-Firm Service will be less than or equal to a maximum price (\$/MWh) as set out below, except where the POD is a point of interconnection between the Transmission System and the transmission system of FortisBC Inc., in which case the rate shall be zero (\$0.00).	
	Maximum Price for:	
	1. Monthly delivery:	\$3,943.99/MW of Reserved Capacity per month.
	2. Weekly delivery:	\$910.15/MW of Reserved Capacity per week.
	3. Daily delivery:	\$129.67/MW of Reserved Capacity per day.
	4. Hourly delivery:	\$5.40/MW of Reserved Capacity per hour.
	Discount Rate:	
	For discounted paths posted on the Transmission Provider's OASIS, the Transmission Customer shall pay each month for Reserved Capacity Billing Demand the greater of the rates set forth below and the rate offered by the Transmission Customer and accepted by the Transmission Provider up to the maximum rate for Short-Term Firm and Non-Firm Service:	
	1. Hourly delivery: \$3/MW of Reserved Capacity per hour in the Heavy Load Hour period (06:00-22:00, Monday - Saturday, excluding NERC holidays) and \$1/MW of Reserved Capacity per hour for the Light Load Hour period (remaining hours and days).	
	2. Daily delivery: sum of the hourly delivery charge in the 24 hour period in the day.	
Reserved Capacity for Short-Term Firm and Non-Firm Services	The Reserved Capacity shall be the maximum of the sum of non- coincident POD(s) Capacity Reservations or sum of non-coincident POR(s) Capacity Reservations.	

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Schedule 01 – Point-To-Point Transmission Service (continued)

Penalty Charge	In addition to the applicable rate for service and associated charges for Ancillary Services, a penalty charge will be applied to all unauthorized usage at a rate of 125 percent of the maximum hourly delivery charge.	
Special Conditions	Discounts:	
	The following conditions apply to discounts for transmission service:	
	 any offer of a discount made by BCTC-BC Hydro must be announced to all Eligible Customers solely by posting on the OASIS, 	
	2 any customer-initiated requests for discounts (including requests for use by one's wholesale merchant or an affiliate's use) must occur solely by posting on the OASIS,	
	 once a discount is negotiated, details must be immediately posted on the OASIS, and 	
	4. for any discount agreed upon for service on a path, from POR(s) POD(s), <u>BCTC-BC Hydro</u> must offer the same discounted transmission service rate for the same time period to all Eligible Customers on all unconstrained transmission paths that go to the same POD(s) on the Transmission System.	
Taxes	The Rate and Charges contained herein are exclusive of <u>applicable</u> <u>taxes. the Goods and Services Tax and Social Service Tax.</u>	
Resales	The rates and rules governing charges and discounts stated above shall not apply to resales of transmission service, compensation for which shall be governed by section 23.1 of the Tariff	
Note	The terms and conditions under which Transmission Service is supplied are contained in British Columbia Transmission Corporation's <u>BC Hydro's</u> Open Access Transmission Tariff. The rates in this Schedule combine the rates of the Transmission Provider in its Rate Schedule 101 and the Transmission Owner in its Rate Schedule 3001. Capitalized terms appearing in this Rate Schedule, unless otherwise	

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noted, shall have the meaning ascribed to them therein.

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Schedule 02 - Non-Firm Point-To-Point Transmission Service

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SCHEDULESchedule 03

-Scheduling, System Control, and Dispatch Service

Preamble	This service is required to schedule the movement of power through, out of, within, or into a Control Area. This service can be provided only by the operator of the Control Area in which the transmission facilities used for transmission service are located. Scheduling, System Control and Dispatch Service is to be provided directly by <u>BCTC.BC Hydro.</u> The Transmission Customer must purchase this service from <u>BCTC.BC</u> <u>Hydro.</u> The charges for Scheduling, System Control and Dispatch Service are to be based on the rates set forth below.
Availability	In support of Network Integration Transmission Service, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point-to-Point Transmission Service.
Rate	\$0.129 per MW of Reserved Capacity per hour.
Taxes	The Rate and Charges contained herein are exclusive of the Goods and Services Tax and Social Service Tax.applicable taxes.
Note	A description of the methodology for discounting Scheduling, System Control and Dispatch Services provided under this Schedule is contained in Section 3 of the British Columbia Transmission CorporationBC Hydro OATT.

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SCHEDULESchedule 04

<u>– Reactive Supply and Voltage Control from Generation or Other Sources Services</u>

Preamble	In order to maintain transmission voltages on BCTC'sBC Hydro's Transmission System within acceptable limits, generation facilities and non-generation resources capable of providing this service that are under the control of the control area operator are operated to produce (or absorb) reactive power. Thus, Reactive Supply and Voltage Control from Generation Sources Service must be provided for each transaction on BCTC'sBC Hydro's Transmission System. The amount of Reactive Supply and Voltage Control from Generation or other Sources and Service that must be supplied with respect to the Transmission Customer's transaction will be determined based on the reactive power support necessary to maintain transmission voltages within limits that are generally accepted in the region.
Availability	In support of Network Integration Transmission Services, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point-to-Point Transmission Service.
Rate	\$0.825 per MW of Reserved Capacity per hour.
Taxes	The Rate and Charges contained herein is exclusive of the Goods and Services Tax and Social Service Tax.applicable taxes.
Note	A description of the methodology for discounting Reactive Supply and Voltage Control from Generation or other Sources Services provided under this Schedule is contained in Section 3 of the British Columbia Transmission Corporation BC Hydro OATT.

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SCHEDULE Schedule 05

-Regulation and Frequency Response Service

Preamble	Regulation and Frequency Response (RFR) Service is necessary to provide for the continuous balancing of resources (generation and interchange) with load and for maintaining scheduled Interconnection frequency at sixty cycles per second (60 Hz). Regulation and Frequency Response Service is accomplished by committing on-line generation whose output is raised or lowered (predominantly through the use of automatic generating control equipment) and by other non-generation resources capable of providing this service as necessary to follow the moment-by-moment changes in load. The obligation to maintain this balance between resources and load lies with BCTC. BCTCBC Hydro. BC Hydro must offer this service when the transmission service is used to serve load within its Control Area. The Transmission Customer must either purchase this service from BCTCBC Hydro or make alternative comparable arrangements to satisfy its Regulation and Frequency Response Service obligation. The amount of and charges for Regulation and Frequency Response Service are set forth below.
Availability	In support of Network Integration Transmission Service, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point-to-Point Transmission Service.
Rate	\$6.37 per MW per hour of generating Capacity requested for RFR. The required amount of RFR service is a minimum of 2% of the Customer's load located in $\frac{BCTC'sBC Hydro's}{BC Hydro's}$ control area.
Taxes	The Rate and Charges contained herein is exclusive of the Goods and Services Tax and Social Service Tax.applicable taxes.
Note	A description of the methodology for discounting Regulation and Frequency Response Services provided under this Schedule is contained in Section 3 of the British Columbia Transmission CorporationBC Hydro OATT.

Order No.:	<u>G 102 09</u>	Issued by: Janet L. Fraser, Director Regulatory Affairs
Accepted Date:		
Effective Date:	21 October 2009	
BCUC Secretary: ACCEPTED:		Rate Schedule 05, original page 1

ORDER NO.



British Columbia Transmission Corporation

Open Access Transmission Tariff <u>Effective: 05 July 2010</u> <u>OATT Schedule 05 Page 2</u>

Order No.:	G 102 00
01001110	0 102 07

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ORDER NO.

Rate Schedule 05, original page 1



SCHEDULESchedule 06

Energy Imbalance Service

Preamble	Energy Imbalance Service is provided when a difference occurs
	between the scheduled and the actual delivery of energy to a load located within a Control Area or to a Control Area boundary over a single hour. <u>BCTC-BC Hydro</u> must offer this service when the transmission service is used to serve load within its Control Area or to export to neighbouring Control Areas. The Transmission Customer must either purchase this service from <u>BCTC-BC Hydro</u> or make alternative comparable arrangements, which may include use of non- generation resources capable of providing this service, to satisfy its Energy Imbalance Service obligation.
	BCTC-BC Hydro shall establish a deviation band of 4 MW to be applied hourly to any energy imbalance that occurs as a result of the Transmission Customer's scheduled transaction(s). The Transmission Customer will compensate BCTC-BC Hydro for such service. Energy imbalances outside the deviation band will be subject to charges to be specified by BCTC-BC Hydro. The charges for Energy Imbalance Service are set forth below. In this Rate Schedule, "BC Hydro's hourly buy price" means the hourly rate at which BC Hydro buys electricity pursuant to the Rate Section of BC Hydro Rate Schedule 3011. "BC Hydro's hourly sell price" means the hourly rate that BC Hydro charges for electricity pursuant to the Rate Section of BC Hydro Rate Schedule 3011.
	"Energy Imbalance Period" means one of three 08 hour periods defined as HE23-6, HE7-14 or HE15-22.
Availability	In support of Network Integration Transmission Services, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point-to-Point Transmission Service.

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Rate Schedule 06, original page 1



British Columbia Transmission Corporation

Open Access Transmission Tariff Effective: 05 July 2010 OATT Schedule 06 Page 2

SCHEDULE

Order No.: G 102 09

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Effective Date: 21 October 2009

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ORDER NO.

Rate Schedule 06, original page 1



Schedule 06

Energy Imbalance Service (continued)

	1	
Energy Imbalance	scl ge les ge	ergy imbalances are calculated hourly based on deviations from heduled generation and load. Positive imbalances occur when actual neration is greater than scheduled generation or when actual load is is than scheduled load. Negative imbalances occur when actual neration is less than scheduled generation or when actual load is eater than scheduled load.
	1.	Positive imbalances that do not exceed 20 MWh over an Energy Imbalance Period, will be settled at <u>BCTC'sBC Hydro's</u> hourly Energy Imbalance Price for the amount of the imbalance that does not exceed 4 MW in any hour, and at BC Hydro's hourly buy price for the amount of the imbalance in any hour that exceeds that amount.
	2.	Positive imbalances that exceed 20 MWh over an Energy Imbalance Period will be settled at BC Hydro's hourly buy price for the entire amount of the imbalance over that Energy Imbalance Period.
	3.	Negative imbalances that do not exceed 20 MWh over an Energy Imbalance Period, will be settled at <u>BCTC'sBC Hydro's</u> hourly Energy Imbalance Price for the amount of the imbalance that does not exceed 4 MW in any hour, and at BC Hydro's hourly sell price for the amount of the imbalance in any hour that exceeds that amount.
	4.	Negative imbalances that exceed 20 MWh over an Energy Imbalance Period will be settled at BC Hydro's hourly sell price for the entire amount of the imbalance over that Energy Imbalance Period.
	ba	<u>CTC'sBC Hydro's</u> Energy Imbalance Price will be calculated hourly sed on the average of BC Hydro's hourly buy price and BC Hydro's urly sell price.

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Accepted Date:		
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BCUC Secretary: ACCEPTED:		Rate Schedule 06, original page 1

ORDER NO.



Taxes <u>Rate</u>	Tax and Social received is equa less Bonneville Border to Mid-C Hydro's hourly b Holidays Index	Service Tax."B(al to the Dow Jo Power Authority Columbia (Mid-C Duy price is equ less the wheelin stem spill occurs	re exclusive of the G C Hydro's hourly buy ones Firm Daily Mid C y's (BPA) wheeling ra c). On Sundays and N al to the Firm Sunday ng rate from B.CU.S during the month, th	price" for energy Columbia LLH Index ate from B.CU.S NERC Holidays, BC V and NERC B. Border to Mid-C. If
	Hours(HLH are	hours ending 0	or energy provided du 700 to 2200) is set ho er wheeling rate will l	ourly as follows:
	Dow Jones Firn	n Daily Mid Colu	umbia HLH Index and ors to derive hourly pr	the result will be
	<u>Hour 0700</u>	0.8531	<u>Hour 1500</u>	0.9668
	<u>Hour 0800</u>	0.9437	<u>Hour 1600</u>	0.9766
	<u>Hour 0900</u>	0.9852	<u>Hour 1700</u>	1.0365
	<u>Hour 1000</u>	0.9995	<u>Hour 1800</u>	1.0966
	<u>Hour 1100</u>	1.0026	<u>Hour 1900</u>	1.0850
	<u>Hour 1200</u>	0.9945	<u>Hour 2000</u>	1.0615
	<u>Hour 1300</u>	0.9861	<u>Hour 2100</u>	1.0360
	<u>Hour 1400</u>	0.9731	<u>Hour 2200</u>	1.0031
	Hours (LLH are	hours ending 2 Columbia LLH I	energy provided dur 300 to 0600) is equa ndex plus BPA's whe	I to the Dow Jones
	NERC Holidays	is equal to the	energy provided dur Dow Jones Firm Sun eling rate from Mid-C	day and NERC

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ORDER NO.



Open Access Transmission Tariff <u>Effective: 05 July 2010</u> OATT Schedule 06 Page 5

	Border. BPA's wheeling rate is available on the BPA OASIS website.
<u>Taxes</u>	The Charges contained herein are exclusive of applicable taxes.
Note	A description of the methodology for discounting Energy Imbalance Services provided under this Schedule is contained in Section 3 of the British Columbia Transmission Corporation <u>BC Hydro's</u> OATT.

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ORDER NO.

Rate Schedule 06, original page 1



SCHEDULESchedule 07

-Operating Reserve (OR) - Spinning Reserve Service

1
Spinning Reserve Service is needed to serve load immediately in the event of a system contingency. Spinning Reserve Service may be provided by generating units that are on-line and loaded at less than maximum output and by non-generation resources capable of providing this service. <u>BCTCBC Hydro</u> must offer this service when the transmission service is used to serve load within its Control Area. The Transmission Customer must either purchase this service from <u>BCTCBC Hydro</u> or make alternative comparable arrangements to satisfy its Spinning Reserve Service obligation. The amount of and charges for Spinning Reserve Service are set forth below.
In support of Network Integration Transmission Services, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point to Point Transmission Service.
 \$6.20 per MW per hour of generating Capacity requested for OR - Spinning. The required amount of Spinning Reserve Service, for a Customer's load located in BCTC'sBC Hydro's control area, depends upon the type of generation serving the load. When the load is served by hydro generation, the required amount of Spinning Reserve Service is a minimum of 2.5% of the Customer's load. When the load is served by thermal generation, the required amount of Spinning Reserve Service is a minimum of 3.5% of the Customer's load.
The Rate and Charges contained herein are exclusive of the Goods and Services Tax and Social Service Tax.applicable taxes.
A description of the methodology for discounting Spinning Reserve Service provided under this Schedule is contained in Section 3 of the British Columbia Transmission Corporation <u>BC Hydro</u> OATT.

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BCUC Secretary: ACCEPTED: Rate Schedule 07, original page 1

ORDER NO.



SCHEDULESchedule 08

__Operating Reserve (OR) – Supplemental Reserve Service

Preamble	Supplemental Reserve Service is needed to serve load in the event of a system contingency; however, it is not available immediately to serve load but rather within a short period of time. Supplemental Reserve Service may be provided by generating units that are on-line but unloaded, by quick-start generation or by interruptible load or other non-generation resources capable of providing this service. <u>BCTCBC</u> <u>Hydro</u> must offer this service when the transmission service is used to serve load within its Control Area. The Transmission Customer must either purchase this service from <u>BCTCBC Hydro</u> or make alternative comparable arrangements to satisfy its Supplemental Reserve Service obligation. The amount of and charges for Supplemental Reserve Service are set forth below.
Availability	In support of Network Integration Transmission Service, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point to Point Transmission Service.
Rate	 \$6.27 per MW per hour of generating Capacity requested for OR - Supplemental. The required amount of Supplemental Reserve Service, for a Customer's load located in BCTC'sBC Hydro's control area, depends upon the type of generation serving the load. When the load is served by hydro generation, the required amount of Supplemental Reserve Service is a minimum of 2.5% of the Customer's load. When the load is served by thermal generation, the required amount of Supplemental Reserve Service is a minimum of 3.5% of the Customer's load.
Taxes	The Rate and Charges contained herein are exclusive of the Goods and Services Tax and Social Service Tax.applicable taxes.
Note	A description of the methodology for discounting Operating Reserve (OR) - Supplemental Reserve Services provided under this Schedule is contained in Section 3 of the British Columbia Transmission Corporation <u>BC Hydro</u> OATT.
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ORDER NO.



British Columbia Transmission Corporation

Open Access Transmission Tariff <u>Effective: 05 July 2010</u> <u>OATT Schedule 08 Page 2</u>

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BCUC Secretary: ACCEPTED:

ORDER NO.

Rate Schedule 08, original page 1



OATT Schedule 09 Page 1

SCHEDULESchedule 09

<u>–</u>Loss Compensation Service

Preamble	Service, Long a Service, and N	To Transmission Customers taking Network Integration Transmission Service, Long and Short-Term Firm Point-to-Point Transmission Service, and Non-Firm Point to Point Transmission Service who have elected to take the Loss Compensation Service.			
Termination Date	1 March 2011				
Rate	price". "BC Hy BC Hydro char	Loss Compensation Service will be priced at "BC Hydro's hourly sell price". "BC Hydro's hourly sell price" means the hourly rate at which BC Hydro charges for electricity pursuant to the Rate Section of BC Hydro's Rate Schedule 3016.			
	<u>BC Hydro's hourly sell price for energy provided during any hour in</u> which the intertie for US to BC is fully utilized, as measured by zero Available Transmission Capacity at the close of the scheduling period for that hour, is the AESO Export Opportunity Service Rate (EOS) added to the Alberta Power Pool price corresponding to that hour.				
	If the intertie for the US to BC is not fully utilized, the following hourly prices apply.				
	BC Hydro's hourly sell price for energy provided during High Load Hours (HLH are hours ending 0700 to 2200) is set hourly as follows:				
	BPA's Mid-C to U.SB.C. Border wheeling rate will be added to the Dow Jones Firm Daily Mid Columbia HLH Index and the result will be multiplied by the following factors to derive hourly prices.				
	<u>Hour 0700</u> 0.8531 <u>Hour 1500</u> 0.9668				
	<u>Hour 0800</u>	0.9437	<u>Hour 1600</u>	0.9766	
	<u>Hour 0900</u>	0.9852	<u>Hour 1700</u>	<u>1.0365</u>	
	<u>Hour 1000</u>	0.9995	<u>Hour 1800</u>	1.0966	

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ORDER NO.



British Columbia Transmission Corporation

Open Access _Transmission Tariff Effective: 05 July 2010 OATT Schedule 09 Page 2

	<u>Hour 1100</u>	1.0026	<u>Hour 1900</u>	1.0850
	<u>Hour 1200</u>	0.9945	<u>Hour 2000</u>	<u>1.0615</u>
	<u>Hour 1300</u>	0.9861	<u>Hour 2100</u>	<u>1.0360</u>
	<u>Hour 1400</u>	0.9731	<u>Hour 2200</u>	1.0031
	Hours (LLH are h		to 0600) is equal	
	NERC Holidays is	y sell price for ene s equal to the Dow us BPA's wheeling	Jones Firm Sund	lay and NERC
	AESO's EOS Rat	e is available on t	he AESO website	<u>.</u>
	BPA's wheeling r	ate is available on	the BPA OASIS V	vebsite
Taxes		arges contained h Social Service Ta		e of the Goods and

Order No.: G 102 09

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ORDER NO.

Rate Schedule 09, original page 1



SCHEDULESchedule 10

<u>–</u>Real Power Losses

All transactions will incur real power losses of 6.28% on the energy delivered to the points of receipt.

Order No.: G 102 09

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ORDER NO.

Rate Schedule 10, original page 1

OATT Amendments

BChydro

Attachment 4

Revised Tariff Supplements

OATT Amendments

BChydro

Tariff Supplement No. 78

Clean

Wheeling for Canal Plant Agreement Coordination Transfers

WHEREAS:

- A. B.C. Hydro, Cominco Ltd., West Kootenay Power and Light Company, Limited ("WKP") and the Government of British Columbia entered into an agreement comprised by letter dated August 13, 1971, from WKP to the Government of British Columbia, as clarified by letter dated August 30, 1971, from the Government of British Columbia to WKP, and enclosures therein (the "**1971 Agreement**");
- B. B.C. Hydro, Cominco Ltd. and WKP entered into an Agreement made as of August 1, 1972 (the "**Original Canal Plant Agreement**") pursuant to the 1971 Agreement;
- C. The Original Canal Plant Agreement, created certain obligations, rights and benefits due to the integration of the Entitlement Parties generation and transmission system into the B.C. Hydro system;
- D. B.C. Hydro and the Entitlement Parties have entered into a revised Canal Plant Agreement, dated July 1, 2005, (the "**Canal Plant Agreement**") which is pursuant to the 1971 Agreement and which amends and restates the Original Canal Plant Agreement;
- E. This Tariff Supplement pertains only to B.C. Hydro's use of the OATT in relation to Coordination Transfers to and from the Kootenay Interconnection.

1. **DEFINITIONS**

- (a) "CPA" means the Canal Plant Agreement, as described in Recital D above, and, unless otherwise expressly stated herein, includes all amendments to that agreement from time to time;
- (b) **"OATT**" means B.C. Hydro's open access transmission service tariff and B.C. Hydro's tariffs that are successors to or replacements of the OATT.

Unless otherwise defined herein, all other capitalized words and phrases have the meaning ascribed to them in the CPA.

ACCEPTED:

ORDER NO.

2. WHEELING RATES

- 2.1 Coordination Transfers to B .C. Hydro, ul timately us ed to s erve B.C. Hydro Ioads, will attract charges from the Kootenay Interconnection in accordance with the OATT and will be treated like any other B.C. Hydro resource at the Kootenay Interconnection; and
- 2.2 Coordination Transfers and ancillary services pursuant to section 6.7 of the CPA, both of which are to be pr ovided by B.C. H ydro to t he E ntitlement P arties at the K ootenay Interconnection, will not attract charges under the OATT.

ACCEPTED:

OATT Amendments

BChydro

Tariff Supplement No. 79

Clean

BC HYDRO GENERATING PLANT INTERCONNECTIONS

WHEREAS:

- A. On April 1, 2005, British Columbia Hydro and Power Authority ("BC Hydro") and British Columbia Transmission Corporation ("BCTC") executed the Generating Plants and Operational Obligations Agreement ("GPOOA") whereby, inter alia, the parties identified BC Hydro's existing generating plant interconnections to the Transmission System for which BC Hydro receives transmission service as a Transmission Customer under its Open Access Transmission Tariff ("OATT");
- B. On February 2, 2006, BCTC filed with the Commission Articles 2 to 8, and related sections, of the GPOOA for approval and pursuant to Commission Letter dated February 27, 2006, BCTC's application was approved;
- C. On December 23, 2009, the Commission approved amendments to the GPOOA by Commission Order No. G-168-09;
- D. On June 3, 2010, the *Clean Energy Act*, S.B.C. 2010, c. 16 ("CEA") received Royal Assent and on July 5, 2010, sections 21 to 33 regarding the integration of BC Hydro and BCTC came into force in accordance with the commencement provisions in section 77 of the CEA.
- E. Part B (Articles 2 to 8), and related provisions, of the GPOOA had formed BCTC's (now BC Hydro's) Tariff Supplement 2; and
- F. This Tariff Supplement amends and replaces the GPOOA to reflect the integration of BC Hydro and BCTC, but does not materially change the interconnection requirements and procedures which have been approved by the Commission as provided above.

ARTICLE 1 INTERPRETATION

1.1 Definitions

In this Tariff Supplement, the following terms will have the following meanings respectively:

- (a) "Applicable Reliability Standards" has, at any time, the meaning then ascribed to that term in Attachment M-1 of the Tariff.
- (b) **"BC Hydro Generation System**" means the Generating Plants, and their respective Interconnection Facilities and Metering Equipment, which are owned,

ACCEPTED:

operated and controlled by BC Hydro, and includes all additions and modifications thereto and repairs and replacements thereof.

- (c) "**Commission**" means the British Columbia Utilities Commission, and includes any successor regulatory body.
- (d) "**Control Area**" has, at any time, the meaning then ascribed to that term in the Tariff.
- (e) "Generating Plant" means each BC Hydro plant for the production of electricity, as identified in Attachment 1, but shall not include a Generating Plant's Interconnection Facilities; and "Generating Plants" means all such plants as provided in Attachment 1.
- (f) **"Governmental Authority**" has, at any time, the meaning then ascribed to that term in Attachment M-1 of the Tariff.
- (g) **"Good Utility Practice**" has, at any time, the meaning then ascribed to that term in the Tariff.
- (h) "Interconnection Facilities" means all facilities and equipment, as identified in Attachment 2 of this Agreement, that are located between a Generating Plant and each respective Point of Interconnection, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Plant to the Transmission System, including, for applicable Generating Plants, transmission facilities connected to the Transmission System for the purpose of providing station service power to the Generating Plant.
- (i) "Interconnection Customer" has, at any time, the meaning then ascribed to that term in Attachment M-1 of the Tariff.
- (j) "Interconnection Requirements" means the published "60 kV to 500 kV Interconnection Requirements for Power Generators" BC Hydro, as the same may be amended from time to time.
- (k) "Interconnection Service" means the service provided by the Transmission Provider associated with the interconnection of the Generating Plants to the Transmission System enabling the transfer of electric energy and capacity from each Generating Plant at each Point of Interconnection. For greater certainty, Interconnection Service does not include transmission delivery service.
- (1) "**Metering Equipment**" means all metering equipment installed pursuant to this Tariff Supplement at the metering points and all related metering equipment

ACCEPTED:

within the Transmission System required for each Generating Plant, including but not limited to instrument transformers, MWh-meters, data acquisition equipment, transducers, remote terminal units, communications equipment, phone lines, and fibre optics.

- (m) "Modification" has the meaning set forth in Section 2.4.
- (n) "**Operating Order**" means any operating instruction that governs and defines the responsibilities and procedures for operating the Integrated Electric System.
- (o) "**Point of Interconnection**" means each point, as set forth in Attachment 1 of this Tariff Supplement, where a Generating Plant's Interconnection Facilities connect to the Transmission System; and "**Points of Interconnection**" means all such Points of Interconnection as provided in Attachment 1.
- (p) "**Tariff**" means BC Hydro's Open Access Transmission Tariff ('OATT"), as amended from time to time.
- (q) "**Transmission Provider**" has, at any time, the meaning then ascribed to that term in the Tariff.
- (r) **"Transmission System**" has, at any time, the meaning then ascribed to that term in the Tariff.
- 1.2 Attachments

The following Attachments are attached hereto and form part of this Tariff Supplement:

Attachment 1(a)	Generating Plants Interconnected to the Transmission System
Attachment 1(b)	Separation of Assets between Generation and Transmission Lines of
	Business, dated 4 April 2002 (as amended from time to time)
Attachment 2	Interconnection Facilities for Generating Plants
Attachment 3	Planned Modifications
Attachment 4	Procedures for Interconnection of Modifications to Generating
	Plants

ARTICLE 2 INTERCONNECTED OPERATION

2.1 Interconnection of Generating Plants

Interconnection Service is provided for each Generating Plant at each Point of Interconnection in accordance with the terms and conditions of this Tariff Supplement.

ACCEPTED:_____

2.2 Applicability of Tariff

Unless otherwise expressly contemplated by this Tariff Supplement, the terms and conditions of this Tariff Supplement will supercede and apply to the exclusion of the Standard Generator Interconnection Procedures ("SGIP"), including the Standard Generator Interconnection Agreement ("SGIA"), set forth in Attachment M-1 of the Tariff. In addition, for the purposes of a BC Hydro Interconnection Request, Schedule A of Attachment 4 of this Tariff Supplement ("Terms and Condition for Modifications") is deemed to be a SGIA.

2.3 Technical Requirements for Interconnection Service

The existing technical requirements for Interconnection Service for each Generating Plant at the Points of Interconnection and the existing Interconnection Facilities for each Generating Plant are set out in Attachment 2. It is acknowledged that such requirements and facilities, and existing related facilities on the Transmission System, may not meet the Interconnection Requirements and, subject to Section 2.4, are deemed to be adequate for Interconnection Service and are exempt from meeting any Interconnection Requirements which they do not meet as of the date of this Tariff Supplement.

2.4 Modification to Interconnection and Generating Plants

- (a) The BC Hydro Generation System shall be designed and constructed to meet the applicable Interconnection Requirements in effect at the time, provided that any existing facilities exempt from meeting the Interconnection Requirements, pursuant to Attachment 2, shall not be required to be modified, repaired, or replaced if such existing facilities are not impacted by the Modification.
- (b) If BC Hydro, as the Interconnection Customer, requires a modification which will change the Point of Interconnection or increase the generating capacity of a Generating Plant or which may reasonably be expected to materially affect the stability or reliability of the Transmission System (each a "**Modification**"), then BC Hydro, as the Interconnection Customer, will submit an Interconnection Request to the Transmission Provider for the Modification in accordance with the Tariff and Attachment 4. For greater certainty, an Interconnection Request will not be required pursuant to this Section 2.4(b) for any Modification which is listed in Attachment 3 unless any such Modification would result in a material impact to the Transmission System.

ACCEPTED:

ORDER NO.

ARTICLE 3 METERING

3.1 General

Existing Metering Equipment, as documented in Attachment 2, is deemed to be adequate to meet the metering requirements for interconnection to the Transmission System.

ARTICLE 4 GENERATING PLANT COMMUNICATIONS

4.1 Communication Obligations

Existing operating communications, as documented in Attachment 2, are deemed to be adequate to meet the operating communications requirements for Generating Plant dispatch and reporting, including reporting by remote telemetry.

ARTICLE 5 OPERATIONS RELATED TO GENERATING PLANTS

5.1 General

BC Hydro shall comply with the Applicable Reliability Standards.

5.2 Operating Orders

Operating Orders will be developed, implemented, reviewed and amended, as necessary, with respect to the Interconnection Services and the operation of the Generating Plant interconnections.

5.3 Start-Up and Synchronization

BC Hydro, as the Interconnection Customer, is responsible for the proper synchronization of each Generating Plant to the Transmission System in accordance with the applicable Operating Orders.

5.4 Reactive Power

Transmission Provider shall treat all sources of reactive power in the Control Area in an equitable non-discriminatory manner, subject to Transmission Provider's duty to maintain Transmission System reliability.

ACCEPTED:_____

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ATTACHMENT 1(a) Generating Plants and Points of Interconnection

Attachment 1(a)

Generating Plants Interconnected to the Transmission System

T	Station
1	Aberfeldie
2	Alouette
3	Ash River
4	Bridge River 1
5	Bridge River 2
6	Burrard
7	Cheakamus
8	Clowholm
9	Elko
10	Falls River
11_	Fort Nelson
12	GMS
13	John Hart
14	Jordan River
15	Kootenay Canal
16	Ladore
17	Lajoie
18	Lake Buntzen 1
19	Mica
20	Peace Canyon
21	Puntledge
22	Revelstoke
23	Rupert Gas Turbine
24	Ruskin
25	Seton
26	Seven Mile
27	Shuswap
28	Spillimacheen
29	Stave Falls
30	Strathcona
31	Wahleach
32	Walter Hardman
33	Whatshan

BC Hydro Tariff Supplement Effective: 05 July 2010 Tariff Supplement No.79 Page 7

ATTACHMENT 1(b)

	Int	er-office me	mo
TO:	Paul Adams Elizabeth Hong		April 4, 2002
FROM:	Ron Rogers Brent Larsen		
SUBJECT:	G/T Asset Split	Update	
Description			
addition, p		financial overview of prop	rosed asset transfers:
Des	cription	Net Book Value	Comments
		(\$,000)	
			Comments Revelstoke and GMS switchyards represent over half of this value.
Transfer fror	n G to T	(\$,000)	Revelstoke and GMS switchyards represent over
Transfer fror Transfer fror	n G to T n T to G m T to Shara d	(\$,000) \$54,389	Revelstoke and GMS switchyards represent over half of this value. Elko unit transformer
Transfer fror Transfer fror Transfer fron Services (,	n G to T n T to G m T to Shara d	(\$,000) \$54,389 \$872	Revelstoke and GMS switchyards represent over half of this value. Elko unit transformer represents most of this Prince Rupert Service

ACCEPTED:_____

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BC Hydro

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- 2 -

Please find attached the final version of the asset separation between Generation and Transmission. To augment this, two sets of official signed marked up one-line diagrams have been prepared which identify the boundaries between G and T.

Please advise if you would like to meet to review.

Attachment

C: Carol Kucharski Bryan Harrap Stu Connacher Hugh Litz

Kehar

ACCEPTED:

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ORDER NO.

Separation of Asset Between Generation and Transmission Lines of Business

Introduction

As part of BC Hydro's move to three distinct lines of business, the division of assets is being re-examined. The Corporate restructuring team has provided general guidance on the separation of Transmission and Generation Assets in the present Power Supply switchyards. This should help to reduce the appearance of conflict of interest for new generators wanting to connect to the transmission system. Thus, these new generators will be dealing solely with the Transmission Line of Business and not with their competitor, the Generation Line of Business, for a new connection.

Business Rules/Guiding Principles

Where practical, Generation Assets are to be considered at or around the high side of the step up transformer or unit circuit breaker and where possible include the associated disconnects.

Where practical, a natural physical boundary should be chosen such that it is relatively clear where Generation ends and Transmission starts.

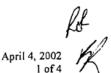
The establishment of the boundaries at each generation station will be based on the above but will reflect the uniqueness of each facility.

Ownership of the land and major improvements such as buildings in which the substations reside will continue to reside with the Generation Business.

For those generation stations where the remaining Transmission components would be small, for simplicity it has been decided that the whole switchyard will remain with the Generation Line of Business.

As the boundary will establish ownership, asset management responsibilities such as maintenance, end of life replacement and enhancement will become the sole responsibility of the new owner. Current business arrangements for performing maintenance and operations work will continue for the short term. Further work is required to resolve how to best implement the different safety/work practices used by the two different lines of business.

Switchyards and generating facilities typically have common sub-systems such as the station service, DC systems, air systems, and communication systems which are essential to both lines of business. Where possible, logical physical boundaries have been established similar to the other major equipment. By way of an example, the station service transformers located in the switchyard have been deemed part of the Transmission Line of Business and the cables which brings this supply to the generating station would then be assigned to Generation Line of Business.



AUTHORS: Ron Rogers/Brent Larsen

ACCEPTED:

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Separation of Asset Between Generation and Transmission Lines of Business

Unresolved Issues

A. * *

under Africant Datament

The present split of assets between Transmission and Generation at Mica leaves a gap in the transmission supply system. The 500 kv bulk supply transmission system ends at the lead shafts and the starts again at the 60 kv transmission switchyard. A site-specific agreement needs to be developed for use of the Generation assets to supply this local transmission system.

Further work is required to address the liabilities and obligation of each party with respect to specific perils such as fire, oil spills, etc.

AUTHORS: Ron Rogers/Brent Larsen

Kek April 4, 2002 ħ 2 of 4

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ORDER NO.

COMMISSION SECRETARY

BC Hydro

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	Separation of et Between Generation and Transmission Lines of Business			
Station	Boundary for Generation	Station Service	Comments	
Aberfeldie	Up to and including T1	Included within G		
Alouette	Up to and including 60SA1	Included within G		
Ash River	Up to and including ICVT1	Included within G	Sec. 1923	
Bridge River I	Up to and including 3SA15 & 16 Up to but not including 12VR1 T3 and associate equipment are in Transmission	Included within G		
Bridge River 2	Up to and including 3DS-8 and 3SA14 & 15	Included within G		
Burrard	Up to and including 2D1-6	Up to and including 2D7 and 8		
Cheakamus	Up to and including 2DCB1 and 2DCB2	Up to but not including T3 and 0.4D51		
Clayton Falls	Part of NIA - not connected to the grid			
Clowholm	Up to and including 1D21	Up to but not including 13D21		
Elko	Up to and including 60D1	Included within G		
Falls River	Up to and including 60CC1	Included within G	The camp is hydro therefore feeder is G	
Fort Nelson	Up to and including 89-A101	Included within G	T concern over the Taps	
GMS	Up to and including T1 - 10	Up to but not including 12VR1,12BP1,12VR2, and 12BP2		
John Hart	Up to and including 1D1-6	Up to and including 0.6FU1		
Jordan River	Up to and including 13CB1and 13CB2	Up to and including 25DSS1 and 25DSS2		
Keogh Gas Turbine	Whole station is G	Included within G		
Kootenay Canal	Up to and including 2D1-4	Up to and including 12D2CB5 and 12DCB7		
Ladore	Up to and including 1D2CB1 and 1D2CB2	Up to and including fuses to SS2 and to the Dam		
Lajoie	Up to and including 60DCB1	Up to and including 60D1		

AUTHORS: Ron Rogers/Brent Larsen

for April 4, 2002

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Tariff Supplement Effective: 05 July 2010 Tariff Supplement No.79 Page 12

	Separation of Generation and Transmiss	sion Lines of Business	0
Station	Boundary for Generation	Station Service	Comments
Lake Buntzen 1	Up to and including 60DCB1	Up to and including Fuse disconnect 2.3DSS2	
Lake Buntzen 2	Whole station is G	Included within G	
Mica	Up to and including \$D36 and \$D37 Up to but not including 12D11 T11 and associated equipment are in Transmission	Included within G	Gap in Power Delivery machine for T
Peace Canyon	Up to and including T1, T2, SLA1 and SLA2	Up to and including Pole top disconnect on 12F54	
Puntledge	Up to and including 1DCB1	SS1 included with G Up to and including 25D2SS4 (SS4)	
Revelstoke	Up to and including 5D34 and 5D35	Up to but not including SST1 and SST2	
Rupert Gas Turbine	Whole station is G	Included within G	
Ruskin	Up to and including 60DCB1,60DCB2 and 60DCB4	Up to and including 60DCB3 Up to and including 13D251	
Seton	Up to and including 60DCB1	Up to but not including SS3	
Seven Mile	Up to and including 2LA21, 2PT21, 2LA22 and 2PT22	Up to and including 12D251	SEL 12F51 - G owns pole equipment but not the line
Shuswap	Up to and including 2.4D1	Included within G	
Spillimacheen	Up to and including 4CB1 and 2	Included within G	
Stave Falls (SFY/SFN)	Up to and including 60DBC20 and 60DCB10	Up to and including 60DSS1 and 60DSS2	
Strathcona	Up to and including 1D1-3	Included within G	
Wahleach	Up to and including 3D1 and 13DCB2 but not including 13DCB5	Up to and including 25DSS1 and 25DSS2	
Walter Hardman	Present-Up to and including 46D4 and 46D5 Future-Up to and including 60D1 and 60D2	Included within G	÷
Whatshan	Up to and including ICC1	Up to and including 12DSS2	
		and the second se	

AUTHORS: Ron Rogers/Brent Larsen

April 4, 2002 Rul

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ATTACHMENT 2 Interconnection Facilities for Generating Plants

as of February 2005

Description	Cheakmus GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	2C81, 2C82	One Line Diagram Dwg No. 417-E05-D5-R2 & LOO: 3P05-61A
B.3 Blackstart		
Blackstart Capability	Yes, 1 - 375kVA Diesel Genset	Local Operationg Order 3P05-61A & One Line Diagram Dwg No. 417-E05-D6-R2
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	2CB1: 2000A ; 2CB2: 2000A	One Line Diagram; 417-E06-D6-R2
B) Disconnect Switches	2DCB1; 1200A ; 2DC82; 1200A	One Line Diagram; 417-E06-D6-R2
2. Circuit breaker fault current rating	2CB1: 40kA ; 2CB2: 40kA	One Line Diagram; 417-E06-D6-R2
C.3 Generator Max Power Output		
Nameplate	G1 & G2: 80 MVA, 0.875 p.f., 13.8kV rated voltage	Powertch Report # 12045-21-00 CMS-1
MPO (plant)	157 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Ful	Local Operating Order: 3P05-61A for CMS
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Available	Powertch Report # 12045-21-00 CMS-1
4. Joint Voltage Control Equipment	Feature Not Available	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
3. ULTC capability	T1, T2: No ULTC	
C.5 Excitation Equipment		A.
1. Time for VI to change from rated to 0.95% ollowing a large step change	G1, G2: 0.03 sec	
. Negative field voltage capability	-4.04 p.u. at 107 Vbase	Powertch Report # 12045-21-00 CMS-1, Exciter One line: 417-H05-D105 SH. SAA
PSS	G1, G2	

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Generating Plant Agreement

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Description	Cheakmus GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1, G2: 1.1 p.u.	Powertch Report # 12045-21-00 CMS-1
B) Minimum Voltage	G1, G2: 0.8 p.u.	Powertch Report # 12045-21-00 CMS-1
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	No OEL	Powertch Report # 12045-21-00 CMS-1
2. UELs (Reactive Ampere Limiting)	For UEL curve(s), see reference	Powertch Report # 12045-21-00 CMS-1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	No C/F and U/F protection but mechanical overspeed protection at 140%	PI Sheets
C.9 Off-Nominal Voltage Operation		
1, O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	51G sustained OV protection: 122% of rated voltage with inverse time characteristics; no U/V protection	PI Sheets
D.1 General Protective Relay Requirements		
I. Relay Information	Refer to DWG 417-E06-D8000 R004 & Generator No. 1 and Unit Transformer Protection Upgrade 2004 Revision 1. The Generating Station P&C Setting Sheets should also be consulted.	
1 Operations Control and Relecommunications Facilities		

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Generating Plant Agreement

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Description	Cheakmus GS	Reference For Additional Information
E.1.1 Remote Control Facility and Control		
Center		
Remote Control Facility	RTU 016 / S231, T117	Communication Block Diagram
Control Center	SCC / LMC	Communication Block Diagram
Control Points	Point Assignment	417-R05-A22 Sh.1 to 7 / 417-H05-A7
Point Assignment	417-R05-A22 Sh.1 to 7 / 417-H05-A7	
Communication Block Diagram	417-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	Yes / No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf/RA
E.1.4 Telemetry	Point Assignment	417-R05-A22 Sh.1 to 7 / 417-H05-A7
E.1.5 Alarm Points	Point Assignment	417-R05-A22 Sh 1 to 7 / 417-H05-A7
E.1.6 Equipment Status	Point Assignment	417-R05-A22 Sh.1 to 7 / 417-H05-A7
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	417-R16-B26
E.1.8 Revenue Metering System	Feature Not Available	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier / UHF Radio to Black Tusk	

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Generating Plant Agreement

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ORDER NO._____

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Description	Jordan River GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13681, 13682	One Line Diagram Operating one line Dwg No. 544-E06-U8000 R004 & LOO: 3P05-01A
B.3 Blackstart		
Blackstart Capability	Yes. 1-25kVA, 600V AC Diesel Generator	LOO: 3P05-01A
C.2 Switchgear Ratings	1	
1. Continuous		
A) Circuit Breakers	13CB1,2 = 4000A	One Line Diagram: 544-E06-D16
B) Disconnect Switches	13DCB1,2 = 4.2kA	One Line Diagram: 544-E06-D16
2. Circuit breaker fault current rating	13CB1,2 = 60kA	One Line Diagram: 544-E06-D16
C.3 Generator Max Power Output		
Nameplate	G1: 200 MVA, 0.90 p.f., 13.8kV rated voltage	Report # PSE418 for JOR
MPO (plant)	170 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Fut	Local Operating Order: 3P05-01A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	Report # PSE318 for JOR
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	Report # PSE318 for JOR
B) Manual	Indeterminable	
5. ULTC capability	T1, T2: No ULTC	
C.5 Excitation Equipment		
1. Time for VI to change from rated to 0.95% following a large step change	G1: 0.02 sec	Report # PSE318 for JOR
2. Negative field voltage capability	-4.5 p.u. at 179.4 Vbase	Report # PSE318 for JOR
PSS	G1	

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Generating Plant Agreement

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Description	Jordan River GS	Reference For Additional Information
C.6 Voltage Regulator when		
generator in Synchronous		
Condenser Mode or Minimum MW		
Mode		
A) Maximum Voltage	G1: 1.1 p.u.	Report # PSE318 for JOR
B) Minimum Voltage	G1: 0.8 p.u.	Report # PSE318 for JOR
C.7 Excitation System Limiters		and the series strengthen a series and the series of the s
1. OELs (Terminal Voltage/Field Current)	Terminal Voltage limiter acts to limit the maximum terminal voltage to 1,1 p.u.	Report # PSE418 for JOR
2. UELs (Reactive Ampere Limiting)	For UEL curves, see reference	Report # PSE418 for JOR
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G: 63Hz for 50 sec	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	51G sustained O/V protection: 120% of rated voltage with inverse time delay characteristics; no U/V protection	PI Sheets
D.1 General Protective Relay Requirements		
I. Relay Information	See Generating Station P&C Setting Sheets for JOR, also see Protection Information on SIS	
E.1 Operations Control and relecommunications Facilities		
1.1 Remote Control Facility and Control		
Remote Control Facility	RTU 046	Communication Block Diagram

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Generating Plant Agreement

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Description	Jordan River GS	Reference For Additional Information
Control Center	VIC, SCC	Communication Block Diagram
Control Points	Point Assignment	544-R04-A411 Sh.1 to 16
Point Assignment	544-R04-A411 Sh.1 to 16	
Communication Block Diagram	544-R04-D4	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdl/RASS ummary.pdf"
E.1.4 Telemetry	Point Assignment	544-R04-A411 Sh.1 to 16
E.1.5 Alarm Points	Point Assignment	544-R04-A411 Sh.1 to 16
E.1.6 Equipment Status	Point Assignment	544-R04-A411 Sh.1 to 16
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	544-R16-B4 Sh 1 to G3
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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Generating Plant Agreement

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Description	Revelstoke GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	5CB1, 5CB2, 5CB3, 5CB4	One Line Diagram 212-P05-B9 Dwg No. 212-E05-U1801-R4 & LOO: 3P03-46/
B.3 Blackstart		
Blackstart Capability	Yes, 2-450kW, 347/600V AC Diesel Genset	LOO: 6P03-66
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	5CB1-4 = 3000A	One Line Diagram Dwg No. 212-E05-U1801-R4
B) Disconnect Switches	5D1-4 = 3000A	One Line Diagram Dwg No. 212-E05-U1801-R4
2. Circuit breaker fault current rating	5CB1-4 = 40kA	One Line Diagram Dwg No. 212-E05-U1801-R4
C.3 Generator Max Power Output		
Nameplate	G1-G4: 485 MVA, 0.95 p.f., 16kV rated voltage	Report # PS-PSE-5
MPO (plant)	1980 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order:6P03-66
3. Line-Drop-Compensation (LDC) equipment and setting	AVR; 0.065 p.u.	Report # PS-PSE-5
. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1-G4: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
3. ULTC capability	T1 - T4: No ULTC	
C.5 Excitation Equipment	영수 방법은 영제에서는 것 같은 것이다.	
Time for VI to change from rated to 0.95% oliowing a large step change	G1-G4: 0.03	Report # PS-PSE-5
2. Negative field voltage capability	-7.41 p.u. at 173.35 Vbase	Report # PS-PSE-5
PSS	G1 - G4	

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Generating Plant Agreement

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ACCEPTED:_____

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Description	Revelstoke GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G1-G4: 1.1 p.u.	Report # PS-PSE-5
B) Minimum Voltage	G1-G4: 08 p.u.	Report # PS-PSE-5
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	G1 - G4: Field Current limiters act to limit If to 3120A Terminal Voltage limiter act to limit Vt to 17.6kV on all units	Report # PS-PSE-5
2. UELs (Reactive Ampere Limiting)	For UEL curve(s), see reference	Report # PS-PSE-5; CRO
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G OIF relay: 65 Hz for more that 50 sec; 12M rotor overspeed protection at 150%	PI Sheets
C.9 Off-Nominal Voltage Operation		
I. O/V and U/V capability (Unit)		
2. QIV and U/V settings (Unit)	59G sustained O/V protection at 120% of rated voltage with inverse time characteristics, and instantaneous protection at 140%	PI Sheets
C.10 Governor Specifications		
. Speed Droop	G1, G2, G3, G4 = 5%	Report # PS-PSE-5
. Dead Band	0.02% or less	
0.1 General Protective Relay Regultrements		
Relay Information	See Generating Station P&C Setting Sheets for REV	LOO: 3P03-46A2 & 3P03-46B

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Generating Plant Agreement

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Description	Revelstoke GS	Reference For Additional Information
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 077 / RTU 078	Communication Block Diagram
Control Center	SIC / SCC, SIC	Communication Block Diagram
Control Points	Point Assignment	212-R05-A16 Sh.1 to 27 / 212-R05-A17 Sh.1 to 29
Point Assignment	212-R05-A16 Sh.1 to 27 / 212-R05-A17 Sh.1 to 29	
Communication Block Diagram	212-R06-B0 Sh.1 to 14	
E.1.2 Automatic Generation Control System (AGC)	Yes	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	Yes	"http://w3/ld/pcontrol/Subsites/Planning/pd /RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	212-R05-A16 Sh 1 to 27 / 212-R05-A17 Sh 1 to 29
E, 1.5 Alarm Points	Point Assignment	212-R05-A16 Sh 1 to 27 / 212-R05-A17 Sh 1 to 29
E.1.6 Equipment Status	Point Assignment	212-R05-A16 Sh 1 to 27 / 212-R05-A17 Sh 1 to 29
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	48V DC System	212-R16-823 Sh. 1 to D1
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
elecommunications Media	Digital Radio	

2/02/2005

Generating Plant Agreement

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ACCEPTED:_____

Description	Gordon M Shrum GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1, 13CB2, 13CB3, 13CB4, 13CB5, 13CB6, 13CB7, 13CB8, 13CB9, 13CB10	One Line Diagram 1006-P06-821 Dwg No. 1006-E06-U0004 R009 & LOO: 3P02-60F
B.3 Blackstart		
Blackstart Capability	Yes, 4-350kW, 4.16kV Diesel Genset	LOO: 3P02-64D
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1-5 = 11.5kA, 13CB6-8 = 12kA; 13CB9,10 = 14kA	One Line Diagram Dwg No. 1006-E05-U0004 R009
B) Disconnect Switches	13DCB1 - 10 = Not Available	One Line Diagram Dwg No. 1006-E06-U0004 R009
2. Circuit breaker fault current rating	Not Available	One Line Diagram Dwg No. 1006-E06-U0004 R009
C.3 Generator Max Power Output		
Nameplate	G1-G8: 239 MVA, 0.95 p.f., 13.8kV rated voltage G9,G10: 316 MVA, 0.95 p.f., 13.8kV rated voltage	Report # PS-PSE-1
MPO (plant)	2730 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	LOO: 3P02-64D
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	Report # PSE461
. Joint Voltage Control Equipment	The JVC circuitry exists but it is out of service	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1-G10: 0.8 p.u 1.1 p.u.	Report # PS-PSE-1
B) Manual	Indeterminable	
i. ULTC capability	T1 - T10: No ULTC	
C.5 Excitation Equipment		
Time for VI to change from rated to 0.95% plowing a large step change	G1 - G10: 0.03 sec	Report # PS-PSE-1

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Generating Plant Agreement

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Description	Gordon M Shrum GS	Reference For Additional Information
2. Negative field voltage capability	G1 - G5: -8.06 p.u. at 118 Vbase G5 - G3: -8.64 p.u. at 98.38 Vbase G9: -9.25 p.u. at 106.5 Vbase G10: -10.82 p.u. at 98.3 Vbase	Report # PS-PSE-1
3. PSS	G1 - G10	
C.6 Voltage Regulator when generator in Synchronous Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G1-G10, 1.1 p.u.	Report # PS-PSE-1
B) Minimum Voltage	G1-G10: 0.8 p.u.	Report # PS-PSE-1
C.7 Excitation System Limiters		
1. OELs (Terminal Voitage/Field Current/V/Hz)	G1-G5: Field Current limiters act to to limit if to 1720A G6-G8: Field Current limiters act to to limit if to 2750A G9,G10: Field Current limiters act to limit if to 2550A Terminal Voltage limiter act to limit V1 to 14-9kV on all units; V/Hz limiter at 1.08 p.u. for all units	Report # PS-PSE-1
2. UELs (Reactive Ampere Limiting)	For UEL curve(s), see reference	Report # PS-PSE-1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	Except G6, all units have 81G O/F relay at 70 Hz for 40 sec; Rotor overspeed protection 12M is set at 170% G8: 81G O/F relay at 65 Hz for 80 sec	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
. O/V and U/V settings (Unit)	59G sustained O/V protection: 120% of rated voltage with Inverse time characteristics; no U/V protection	PI Sheets
C.10 Governor Specifications		
. Speed Droop	G1 - G5 = 5%; G8 - G8 = 3.2%; G9, G10 = 4.6%	Report # PS-PSE-1

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Generating Plant Agreement -

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ACCEPTED:_____

Description	Gordon M Shrum GS	Reference For Additional Information
2. Dead Band	0.02% or less	
D.1 General Protective Relay Requirements	¥.	
1. Relay Information	See Generating Station P&C Setting Sheets for GMS, also see Protection Information on SIS	
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 025 / RTU 026	Communication Block Diagram
Control Center	SCC / SIC	Communication Block Diagram
Control Points	Point Assignment	1005-R05-A78 Sh 1 to 24 / 1006-R05-A79 Sh 1 to 15
Point Assignment	1006-R05-A78 Sh.1 to 24 / 1006-R05-A79 Sh.1 to 15	
Communication Block Diagram	1006-R06-D0 Sh.1 to 15	
E.1.2 Automatic Generation Control System (AGC)	Yes	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	Yes	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	1006-R05-A78 Sh 1 to 24 / 1006-R05-A79 Sh 1 to 15
E.1.5 Alarm Points	Point Assignment	1006-R05-A78 Sh.1 to 24 / 1006-R05-A79 Sh.1 to 15
E 1.6 Equipment Status	Point Assignment	1006-R05-A78 Sh.1 to 24 / 1006-R05-A79 Sh.1 to 15
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	1006-R05-B68
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		

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Generating Plant Agreement

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ACCEPTED:_____

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Description	Gordon M Shrum GS	Reference For Additional Information
Telecommunications Media	Microwave Radio	

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Description	Peace Canyon GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1, 13CB2, 13CB3, 13CB4	1- line Dwg 1007-E06-02 :1007-H04-U2 Dwg No. 1007-E04-U165-R1 & LOO: 3P02-90M
B.3 Blackstart		
Blackstart Capability	Yes, 1 - 500kW, 500V AC Diesel Genset	LOO: 3P02-93E
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1,4 = 9000A	One Line Diagram; 1007-E04-U165-R1
B) Disconnect Switches	13D1,4 = N/A	One Line Diagram, 1007-E04-U165-R1
2. Circuit breaker fault current rating	13CB1, 4 = 85kA	One Line Diagram; 1007-E04-U165-R1
C.3 Generator Max Power Output		
Nameplate	G1-4: 184 MVA, 0.95 p.f., 13.8kV rated voltage	Report # PSE461
MPO (plant)	694 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
 Unit/Plant MVar or terminal voltage adjustment by BCTC 	Full	Local Operating Order: 3P02-688
 Line-Dtop-Compensation (LDC) equipment and setting 	AVR; 0.05 p.u.	Report # PSE461
4. Joint Voltage Control Equipment	The JVC circuitry exists but it is out of service	Contact: Larry Nettleton/Shane Kronebush
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1-G4: 0.8 p.u 1.1 p.u.	Report # PSE461 Contact: Larry Nettleton/Shane Kronebush
B) Manual	Indeterminable	
3. ULTC capability	T1, T2: No ULTC	
C.5 Excitation Equipment		
Time for Vf to change from rated to 0.95% offowing a large step change	G1 - G4: 0.005 sec	Report #PSE461
. Negative field voltage capability	-6.62 p.u. at 197.4 Vbase	Report # PSE461
PSS	G1 - G4	

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Description	Peace Canyon GS	Reference For Additional Information
C.5 Voltage Regulator when generator in Synchronous Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G1-G4: 1.1 pu.	Report # PSE461
B) Minimum Voltage	G1-G4: 0.8 p.u.	Report # PSE461
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current/V/Hz)	Field Current limiters acts to to limit If to 1590A; Terminal Voltage limits max voltage to 14.9kV	Report # PSE461
2. UELs (Reactive Ampere Limiting)	For UEL curves, see reference	Report # PSE461, C.R.O.
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G O/F relay: 64 Hz for more that 30 sec	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. OrV and U/V settings (Unit)	51G OV protection: 114% of rated voltage with inverse time characteristics; no UV protection	PI Sheets
C.10 Governor Specifications		
. Speed Droop	G1, G2, G3, G4 = 6%	
. Dead Band	0.02% or less	
0.1 General Protective Relay Requirements		
Relay Information	See Generating Station P&C Setting Sheets for PCN, also see Protection Information on SIS	

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Description	Peace Canyon GS	Reference For Additional Information
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 072	Communication Block Diagram
Control Center	SCC / SIC	Communication Block Diagram
Control Points	Point Assignment	1007-R05-A2 Sh 1 to 27
Point Assignment	1007-R05-A2 Sh.1 to 27	
Communication Block Diagram	1007-R24-D1 Sh.1 to 5	
E.1.2 Automatic Generation Control System (AGC)	Yes	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Ptanning/pdf/ RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	1007-R05-A2 Sh 1 to 27
E.1.5 Alarm Points	Point Assignment	1007-R05-A2 Sh.1 to 27
E.1.6 Equipment Status	Point Assignment	1007-R05-A2 Sh 1 to 27
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	1007-R24-D12
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
elecommunications Media	Microwave Radio	

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Description	Shuswap GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	2.4CB1, 2.4CB2	One Line Diagram: 310-H06-D1 R3 LOO: 3P03-76B
B.3 Blackstart		
Blackstart Capability	Yes, 1-12.5kVA, 480Vac Diesel Genset	LOO: 3P03-76B
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	2.4CB1, 2 = 1200A	One Line Diagram Dwg No. 310-H06-D1 R3
B) Disconnect Switches	No Disconnects	One Line Diagram Dwg No. 310-H06-D1 R3
2. Circuit breaker fault current rating	2.4CB1, 2 = 18kA	One Line Diagram Dwg No. 310-H06-D1 R3
C.3 Generator Max Power Output		
Nameplate	G1, G2: 3.5 MVA, 0.8 p.f., 2.3kV rated voltage	Generator Data Book
MPO (plant)	6 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O., Generator Data Book
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	LOO: 3P03-768
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
5. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
 Time for VI to change from rated to 0.95% ollowing a large step change 	Not Available	
2. Negative field voltage capability	Not Available	
. P\$\$	Feature Not Available	

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Description	Shuswap GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW		
Mode		· · · · · · · · · · · · · · · · · · ·
A) Maximum Voltage	G1, G2, 1.1 p.u.	
8) Minimum Voltage	G1, G2: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Not Available	
2. UELs (Reactive Ampere Limiting)	Not Available	
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	No 81G O/F and U/F protection but overspeed protection at 150%	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. OV and UV capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained OV protection at 122% of rated voltage with inverse time characteristics	PI Sheets
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for SHU	
E.1 Operations Control and		
Telecommunications Facilities		
L1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 116	Communication Block Diagram
Control Center	SIC	Communication Block Diagram

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Description	Shuswap GS	Reference For Additional Information
Control Points	Point Assignment	310-R05-A2 Sh.1 to 2 and SIC SCADA Database - Point Assignment
Point Assignment	310-R05-A2 Sh.1 to 2 and SIC SCADA Database - Point Assignment	
Communication Block Diagram	Not Available	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	310-R05-A2 Sh 1 to 2 and SIC SCADA Database - Point Assignment
E.1.5 Alarm Points	Point Assignment	310-R05-A2 Sh.1 to 2 and SIC SCADA Database - Point Assignment
E.1.6 Equipment Status	Point Assignment	310-R05-A2 Sh 1 to 2 and SIC SCADA Database - Point Assignment
E.1.7 Battery/Charger System	24V DC System	Telecontrol Manual Unit 22 Section 1
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Telephone Line	

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Description	Whatshan GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1	One Line Diagram 203C-P06-B2 Dwg No. 203C-E06-D0005 R004 & LOC: 3P04-08
B.3 Blackstart		
Blackstart Capability	No	LOO: 3P04-08
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1 = 3000A	One Line Diagram Dwg No. 203C-E06-D0005 R004
B) Disconnect Switches	No Disconnects	One Line Diagram Dwg No. 203C-E06-D0005 R004
2. Circuit breaker fault current rating	13CB1 - 40kA	One Line Diagram Dwg No. 203C-E06-D0005 R004
C.3 Generator Max Power Output		
Nameplate	G1: 55.5 MVA, 0.90 p.f., 13.8kV rated voltage	PSE Report# PSE297 for WGS
MPO (plant)	54 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Ful	Local Operating Order: 3P04-08
3. Line-Drop-Compensation (LDC) equipment	Feature Not Equipped	PSE Report# PSE297 for WGS
I. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	PSE Report# PSE297 for WGS
B) Manual	Indeterminable	
3. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
Time for VI to change from rated to 0.95% oflowing a large step change	G1: 0.03 sec	
. Negative field voltage capability	-3.2 p.u. at 90.5 Vbase	PSE Report# PSE297 for WGS
PSS	G1	

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Description	Whatshan GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1: 1,1 p.u.	PSE Report# PSE297 for WGS
B) Minimum Voltage	G1: 0.8 p.u.	PSE Report# PSE297 for WGS
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Field Current limiters acts to to limit if to 1035A; Terminal Voltage limits max voltage to 15.18kV	PSE Report# PSE297 for WGS
2. UELs (Reactive Ampere Limiting)	For UEL curves, see reference	PSE Report# PSE297 for WGS
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. CVF and U/F settings (Unit)	There is no 81 for U/F or O/F but relay 12 protects against overspeed	Pi Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	51G sustained OV protection: 114% of rated voltage with inverse time characteristics, instantaneous protection at 145%; no UV protection	PI Sheets
D.1 General Protective Relay Requirements		
. Relay Information	See Generating Station P&C Setting Sheets for WGS	
E.1 Operations Control and relecommunications Facilities		
.1.1 Remote Control Facility and Control Center		

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E.2 Telecommunications Media		
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.1.7 Battery/Charger System	Not Available	Telecontrol Manual Unit 22 Section 1
E.1.6 Equipment Status	Point Assignment	203C-R04-A412 Sh 1 to 14
E.1.5 Alarm Points	Point Assignment	203C-R04-A412 Sh 1 to 14
E.1.4 Telemetry	Point Assignment	203C-R04-A412 Sh.1 to 14
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pd RASSummary.pdf"
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
Communication Block Diagram	203C-R04-D6	
Point Assignment	203C-R04-A412 Sh.1 to 14	
Control Points	Point Assignment	203C-R04-A412 Sh 1 to 14
Control Center	SIC	Communication Block Diagram
Remote Control Facility	RTU 108	Communication Block Diagram
Description	Whatshan GS	Reference For Additional Information

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Description	Seven Mile GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	SEV has no generator breakers; switchyard ring bus breakers are used for connecting generators to the transmission system	One Line Diagram: 224-E14-D0010 R004 LOO: 3P04-06 224-P06-B4
B.3 Blackstart		
Blackstart Capability	Yes, 2-250kW & 1-100kW, 347/600V AC Diesel Genset	LOO: 3P04-06J
C.2 Switchgear Ratings		
1. Continuous		
A) Gircuit Breakers	2CB1, 2CB2 = 2kA; 2CB3, 2CB4 = 2.5kA	One Line Diagram: 224-E14-D0010 R004
B) Disconnect Switches	13D1,2,3 = 10kA; 13D4 = 12kA 2DCB1,2 = 2kA; 2DCB3,4 = 2.5kA	One Line Diagram: 224-E14-D0010 R004
2. Circuit breaker fault current rating	2CB1, 2CB2 = 50kA; 2CB3, 2CB4 = 31.5kA	One Line Diagram: 224-E14-D0010 R004
C.3 Generator Max Power Output		
Nameplate	G1 - G3: 225 MVA, 0.95 p.f. G4: 233 MVA, 0.95 p.f., 13.8kV rated voltage	PSE Report# PSE463 for SEV
MPO (plant)	797 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. UniVPlant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P04-06
 Line-Drop-Compensation (LDC) equipment and setting 	AVR; 0.033 p.u.	PSE Report# PSE463 for SEV
. Joint Voltage Control Equipment	Feature Not Equipped	Contact: Larry Nettleton/Shane Kronebush
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1-G4: 0.8 p.u 1,1 p.u.	PSE Report# PSE463 for SEV
B) Manual	Indeterminable	
. ULTC capability	T1 - T4: No ULTC	
C.5 Excitation Equipment		
Time for Vf to change from rated to 0.95% ollowing a large step change	G1 - G4: 0.03 sec	PSE Report# PSE463 for SEV
Negative field voltage capability	G1 - G3: -6.46 p.u. at 197.9 Vbase G4: -5.37 p.u. at 134 Vbase	PSE Report# PSE453 for SEV

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Description	Seven Mile GS	Reference For Additional Information
3. PSS	G1-G4	1
C.6 Voltage Regulator when generator in Synchronous Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G1-G4:1.1 p.u.	PSE Report# PSE463 for SEV
B) Minimum Voltage	G1-G4: 0.8 p.u.	PSE Report# PSE463 for SEV
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Field Current limiters acts to to limit if to 1563A for G4 and 1890A for G1 - G3; Terminal Voltage limits max voltage to 15.18kV for all units	
2. UELs (Reactive Ampere Limiting)	See Reference	PSE Report# PSE463 for SEV
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	G1 - G3: No Q/F or U/F protection, but electrical overspeed protection at 150%; mechanical overspeed at 160% G4: Electrical overspeed protection at 145% and mechanical overspeed protection at 150%	PI Sheets
C.9 Off-Nominal Voltage Operation		
. OV and U/V capability (Unit)		
. OV and UV settings (Unit)	G1 - G3: 59G sustained QV protection: 120% of rated voltage with inverse time characteristics, instantaneous at 140% G4: 59G sustained QV protection at 121% with inverse time characteristics; no U/V protection on any units	PI Sheets
C.10 Governor Specifications		

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Description	Seven Mile G5	Reference For Additional Information
1. Speed Droop	G1, G2, G3, G4 = 5%	PSE Report# PSE463
2. Dead Band	0.02% or less	
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for SEV, also see Protection Information on SIS	
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 087 / RTU 088 / RTU 125	Communication Block Diagram
Control Center	SIC / SCC, SIC / SIC	Communication Block Diagram
Control Points	Point Assignment	224-R05-A2003 Sh.1 to 5 / 224-R05-A2004 Sh.1 to 22 / 224-R05-A2005 Sh.1 to 23
Point Assignment	224-R05-A2003 Sh.1 to 5 / 224-R05-A2004 Sh.1 to 22 / 224-R05-A2005 Sh.1 to 23	
Communication Block Diagram	224-R06-80 Sh. 1 to 14	
E.1.2 Automatic Generation Control System (AGC)	No / Yes / No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	Yes	"http://w3/td/pcontrol/Subsites/Planning/pdf/RASS ummary.pdf"
E.1.4 Telemetry	Point Assignment	224-R05-A2003 Sh.1 to 5 / 224-R05-A2004 Sh.1 to 22 / 224-R05-A2005 Sh.1 to 23
E.1.5 Alarm Points	Point Assignment	224-R05-A2003 Sh.1 to 5 / 224-R05-A2004 Sh.1 to 22 / 224-R05-A2005 Sh.1 to 23
E.1.6 Equipment Status	Point Assignment	224-R05-A2003 Sh.1 to 5 / 224-R05-A2004 Sh.1 to 22 / 224-R05-A2005 Sh.1 to 23
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	48V DC System	224-R16-87 Sh.1 to D1
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		

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Description	Seven Mile GS	Reference For Additional Information
Telecommunications Media	Digital Radio	

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Description	Fort Netson GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	5281	Operating One line diagram Ct 300
B.3 Blackstart		
Blackstart Capability	Yes, but only when blackstart power is available from Duke Energy plant	- 1.20 (2007) (2007)
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	89-A106 and 89-A107: 1200A; 2CB2: 1200A	Refer to FNG one line diagram
B) Disconnect Switches	2DCB1: 1200A ; 2DCB2: 1200A	Refer to FNG one line diagram
2. Circuit breaker fault current rating	89-A106: 40kA ; 89-A107: 40kA	Refer to FNG one line diagram
C.3 Generator Max Power Output		
Nameplate	58.588kVA, 0.85pf 13.8kV rated voltage	
MPO (plant)	49.8MW	
C.4 Generator Reactive Capability		
1. Capability Curves	Please see the attachment	
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	NA	BCTC can't remotely control the voltage. FNG is tied to the Alberta Grid through Rain Bow Lake substation.
3. Line-Drop-Compensation (LDC) equipment and setting	Adjustable 0-10%	
4. Joint Voltage Control Equipment	N/A	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	0.9-1.0 pu	
B) Manual	0.9-1.1 pu	
6. ULTC capability	No ULTC	
C.5 Excitation Equipment		
Time for VI to change from rated to 0.95% oliowing a large step change	0.175 sec	
Negative field voltage capability	No	
PSS	Yes	

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Description	Fort Nelson GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode	Synchronous condensor operation not available	
A) Maximum Voltage	N/A	
8) Minimum Voltage	N/A	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Please see the attachment	
2. UELs (Reactive Ampere Limiting)	Please see the attachment	
C.8 Off-Nominal Frequency		
Operation		
1. OIF and U/F capability (Unit)	55-65Hz	
2. Q/F and U/F settings (Unit)	Relay: UF: 58Hz (alarm) OF:52Hz (alarm) Turbine speed switch: 63Hz (alarm) 64 Hz (trip)	
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)	0.9 - 1.1 pu	Flux limit: 1.1 Vn/Fn
2. O/V and U/V settings (Unit)	UV relay setting: 0.9 pu (alarm)	
D.1 General Protective Relay		
Requirements		
1. Relay Information	Please see the attachment	
E.1 Operations Control and		Communication provided by BCH T&D.
Telecommunications Facilities		Communication provided by BCH 18D.
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	No control. Indication only	
Control Center	Northern Control Centre (NCC)	
Control Points	None	

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Description	Fort Nelson GS	Reference For Additional Information
Point Assignment		
Communication Block Diagram		
E.1.2 Automatic Generation Control System (AGC)		
E.1.3 Remedial Action Schemes (RAS)		
E.1.4 Telemetry	Line frequency, 7L81R - MW, kV, 7L81W MW, kV, G1- MW	
E.1.5 Alarm Points	FNG PML 1 and 2 Meter Fail Alarm	
E.1.6 Equipment Status	52-A106, 52-A107, 52-B1, 89-A104, 89-A105, 89- A108, AVR on/off, PSS on/off	
E.1.7 Battery/Charger System System		
E.1.8 Revenue Metering System		
E.2 Telecommunications Media		
Telecommunications Media	Telephone- (Telus/NW Tel); continuous	

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Description	John Hart GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1, 13CB2, 13CB3, 13CB4, 13CB5, 13CB6	One Line Diagram 502-H06-E2 Dwg No. 502-E06-D0001 R007 & LOO: 3P05-03A
B.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1-6 = 1600A	One Line Diagram Dwg No. 502-E06-D0001 R007
B) Disconnect Switches	1D1-6 = 1.2kA; 13D1CB1-6 = 3kA; 13D1-6 = 1.6kA	One Line Diagram Dwg No. 502-E06-D0001 R007
2. Circuit breaker fault current rating	13CB1-5 = 22kA	One Line Diagram Dwg No. 502-E06-D0001 R007
C.3 Generator Max Power Output		
Nameplate	G1-G6: 25 MVA, 0.8 p.f., 13.8kV rated voltage	Powertch Report # 12045-21-00-JHT1
MPO (plant)	126 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage edjustment by BCTC	Full	Local Operating Order: 3P05-03A
Line-Drop-Compensation (LDC) equipment ind setting	Feature Not Available	
Joint Voltage Control Equipment	Feature Not Available	
Generator Voltage Regulator minimum and Asximum Voltage Setpoint		
A) Automatic	G1-G6. 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
ULTC capability	T1-T6: No ULTC	
C.5 Excitation Equipment		
. Time for VI to change from rated to 0.95% blowing a large step change	G1-G6: 2.14 sec	Powertch Report # 12045-21-00-JHT1
Negative field voltage capability	0 at 84.6 Vbase	Powertch Report # 12045-21-00-JHT1
PSS	Feature Not Available	

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Description	John Hart GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1-G6: 1.1 p.u.	
8) Minimum Voltage	G1-G6: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	None	Powertch Report # 12045-21-00-JHT1
2. UELs (Reactive Ampere Limiting)	None	Powertch Report # 12045-21-00-JHT1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G time delayed O/F relay: 65 Hz	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. OV and UV settings (Unit)	51G OV protection: 113% of rated voltage with inverse time characteristics, 125% instantaneous; no U/V protection	PI Sheets
D.1 General Protective Relay Requirements		
. Relay Information	See Generating Station P&C Setting Sheets for JHT	
E.1 Operations Control and relecommunications Facilities		
E.1.1 Remote Control Facility and Control Center	· · · · · · · · · · · · · · · · · · ·	

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Description	John Hart GS	Reference For Additional Information
Remote Control Facility	RTU 037 / RTU 038 / RTU 039 / RTU 040 / RTU 041 / RTU 042 / RTU 043	Communication Block Diagram
Control Center	VIC	Communication Block Diagram
Control Points	Point Assignment	502-R05-A90 Sh.1 to 12 / 502-R05-A91 Sh.1 to 12 / 502-R05-A92 Sh.1 to 13 / 502-R05- A93 Sh.1 to 12 / 502-R05-A94 Sh.1 to 12 / 502-R05-A95 Sh.1 to 12 / 502-R05-A96 Sh.1 8 10
Point Assignment	502-R05-A90 Sh.1 to 12 / 502-R05-A91 Sh.1 to 12 / 502- R05-A92 Sh.1 to 13 / 502-R05-A93 Sh.1 to 12 / 502-R05- A94 Sh.1 to 12 / 502-R05-A96 Sh.1 to 12 / 502-R05-A96 Sh.1 & 10	
Communication Block Diagram	502-R06-80 Sh.1 to 18	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/ld/pcontrol/Subsites/Planning/pdf/R ASSummary.pdf"
E.1.4 Telemetry	Point Assignment	502-R05-A90 Sh.1 to 12 / 502-R05-A91 Sh.1 to 12 / 502-R05-A92 Sh.1 to 13 / 502-R05- A93 Sh.1 to 12 / 502-R05-A94 Sh.1 to 12 / 502-R05-A95 Sh.1 to 12 / 502-R05-A96 Sh.1 & 10
E.1,5 Alarm Points	Point Assignment	502-R05-A90 Sh.1 to 12 / 502-R05-A91 Sh.1 to 12 / 502-R05-A92 Sh.1 to 13 / 502-R05- A93 Sh.1 to 12 / 502-R05-A94 Sh.1 to 12 / 502-R05-A95 Sh.1 to 12 / 502-R05-A96 Sh.1 & 10
E.1.6 Equipment Status	Point Assignment	502-R05-A90 Sh.1 to 12 / 502-R05-A91 Sh.1 to 12 / 502-R05-A92 Sh.1 to 13 / 502-R05- A93 Sh.1 to 12 / 502-R05-A94 Sh.1 to 12 / 502-R05-A95 Sh.1 to 12 / 502-R05-A96 Sh.1 & 10
1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System		502-R16-B38
1.8 Revenue Metering System		Metering equipment is present but there is no revenue metering "system"

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Description	John Hart GS	Reference For Additional Information
E.2 Telecommunications Media		
Telecommunications Media	Digital Radio	

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Description	Strathcona GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1, 13CB2	One Line Diagram 524-E06-D3 Dwg No. 524-E06-B8000 & LOO:3P05-06A
B.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1, 2 = 2000A	One Line Diagram: 524-P06-B8
B) Disconnect Switches	13D1, 2 = 2000A; 1D1,2 = 600A	One Line Diagram: 524-P06-B8
2. Circuit breaker fault current rating	13CB1, 2 = 37kA	One Line Diagram: 524-P06-B8
C.3 Generator Max Power Output		A REAL PROPERTY OF THE REAL PR
Nameplate	G1, G2: 37.5 MVA, 0.90 p.f., 13.8kV rated voltage	Powertech Report# 12137-21-00 SCA-1
MPO (plant)	64 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Fuli	Local Operating Order: 3P05-06A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	Powertech Report# 12137-21-00 SCA-1
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint	1	
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
6. ULTC capability	T1, T2: No ULTC	
C.5 Excitation Equipment		
1. Time for Vf to change from rated to 0.95% following a large step change	G1: 0.03 sec	
2. Negative field voltage capability	-6.0 p.u. at 86.3 Vbase	Exciter Single Line: 524-H06-D149 SH. SAE
3. PSS	Feature Not Equipped	

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Description	Strathcona GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous		
Condenser Mode or Minimum MW		
Mode		
A) Maximum Voltage	G1, G2: 1.1 p.u.	Contact: Larry Nettleton/Shane Kronebush
B) Minimum Voltage	G1, G2: 0.8 p.u.	Contact: Larry Nettleton/Shane Kronebush
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	None	Powertech Report# 12137-21-00 SCA-1
2. UELs (Reactive Ampere Limiting)	UEL's are set at If = 320A	Powertech Report# 12137-21-00 SCA-1
C.8 Off-Nominal Frequency		1
Operation		
1, O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	There is no 81 for U/F or O/F but overspeed relay 12 is set at 1.34 p.u.	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G Sustained O/V protection: 110% of rated votage with inverse time characteristics; no U/V protection	PI Sheets
D.1 General Protective Relay Requirements		
1. Relay information	See Generating Station P&C Setting Sheets for SCA, also see Protection Information on SIS	LOO:3P05-06A
E.1 Operations Control and		
Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 097	Communication Block Diagram
Control Center	JHT, VIC	Communication Block Diagram

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Telecommunications Media	Power Line Carrier	
E.2 Telecommunications Media		
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
System	24V DC System	524-R16-821 Sh.1 to C2
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
E.1.6 Equipment Status	Point Assignment	524-R05-A26 Sh 1 to 16
E.1.5 Alarm Points	Point Assignment	524-R05-A26 Sh.1 to 16
E.1.4 Telemetry	Point Assignment	524-R05-A26 Sh 1 to 16
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/id/pcontrol/Subsites/Planning/pd//R ASSummary.pdf"
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
Communication Block Diagram	524-R06-D0	
Point Assignment	524-R05-A26 Sh.1 to 16	
Control Points	Point Assignment	524-R05-A26 5h.1 to 16
Description	Strathcona GS	Reference For Additional Information

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Description	Puntledge GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13C86	One Line Diagram Dwg No. 525-E06-D0001 R015 SH.1 & Dwg No. 525-E06-D0001 R005 SH.2 & LOO: 3P05-05A
B.3 Blackstart		
Blackstart Capability	No	LOO: 3P05-05A
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1 = 1200A, 13CB6 = 2000A	One Line Diagrams Dwg No. 525-E06-D0001 R015 SH.1 & Dwg No. 525-E06-D0001 R006 SH.2
B) Disconnect Switches	No Disconnects	One Line Diagrams Dwg No. 525-E06-D0001 R015 SH.1 & Dwg No. 525-E06-D0001 R006 SH.2
2. Circuit breaker fault current rating	Not Available	
C.3 Generator Max Power Output	The second second second second second second second second second second second second second second second s	and the second man is second as
Nameplate	G1: 30 MVA, 0.90 p.f., 13.8kV rated voltage	Powertech Report# 12137-21-00 PUN-1
MPO (plant)	24 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Ful	Local Operating Order: 3P05-05A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	Powertech Report# 12137-21-00 PUN-1
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
B. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
 Time for Vf to change from rated to 0.95% following a large step change 	G1: 0.03	

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Description	Puntledge GS	Reference For Additional Information
2. Negative field voltage capability	-5.9 p.u. at 73.2 Vbase	Exciter Single Line: 525-H04-D111 SH. SAA
3. PSS	Feature Not Equipped	
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW		
Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
B) Minimum Votage	G1: 0.8 p.u.	
C.7 Excitation System Limiters 1. OELs (Terminal Voltage/Field Current)		Powertech Report# 12137-21-00 PUN-1
2. UELs (Reactive Ampere Limiting)	for UEL curves, see reference	Powertech Report# 12137-21-00 PUN-1 Powertech Report# 12137-21-00 PUN-1
C.8 Off-Nominal Frequency	for UEL curves, see relevence	Poweneon Reports 12137-21-00 PON-1
Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	There is no 81 for U/F or O/F but overspeed relay 12 is set at 1.3 p.u.	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59L sustained OV protection: 122% of rated voltage with inverse time characteristics; no UV protection	PI Sheets
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for PUN	
E.1 Operations Control and Telecommunications Facilities		

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Description	Puntledge GS	Reference For Additional Information
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 076	Communication Block Diagram
Control Center	VIC	Communication Block Diagram
Control Points	Point Assignment	525-R05-A14 Sh.1 to 17
Point Assignment	525-R05-A14 Sh.1 to 17	
Communication Block Diagram	525-R06-D0 Sh.1 to 5	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	525-R05-A14 Sh 1 to 17
E.1.5 Alarm Points	Point Assignment	525-R05-A14 Sh.1 to 17
E.1.6 Equipment Status	Point Assignment	525-R05-A14 Sh.1 to 17
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	525-R16-B17
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Telephone Lease to John Hart G.S.	

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Description	Kootenay Canal GS	Reference For Additional Informatio
B.2 Synchronization		
Circuit Breaker (s) used	KCL has no generator breakers; switchyard ring but breakers are used for connecting generators to the transmission system	¹ 1-line dwg 217-E04-D101 Dwg No. 217-E05-D0101 R002 & Dwg No. 217-E05-D0102 R007 & LOD:3P04-05
B.3 Blackstart		
Blackstart Capability	Yes, 1-187.5kVA, 347/600Vac Diesel Genset	LOO: 3P04-05J
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	2CB2,4,7,0,13,16 = 3kA; 2CB3,5,6,8,11,12,14; 1,2kA 2CB10,15; 3,15 kA	One Line Diagrams Dwg No. 217-E05-D0101 R002 & Dwg No. 217-E05-D0102 R007
B) Disconnect Switches	201-5, 2031,32 = 2kA	One Line Diagrams Dwg No. 217-E05-D0101 R002 & Dwg No. 217-E05-D0102 R007
2. Circuit breaker fault current rating	2C82,4,7,9,10,13,15,16 = 40kA; 2C83,5,6,8,11,12,14; 25kA	One Line Diagrams Dwg No. 217-E05-D0101 R002 & Dwg No. 217-E05-D0102 R007
C.3 Generator Max Power Output		
Nameplate	G1 - G4: 147 MVA at 0.90 p.f., 13.8kV rated voltage	PSE Report# PSE462
MPO (plant)	580 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
. Capability Curves	See Reference	C.R.O.
. Unit/Plant MVar or terminal voltage djustment by BCTC	Ful	Local Operating Order: 3P04-05
. Line-Drop-Compensation (LDC) equipment and setting	AVR; 0.05 p.u.	PSE Report# PSE462
. Joint Voltage Control Equipment	The JVC circuitry exists but it is out of service	
. Generator Voltage Regulator minimum and Assimum Voltage Setpoint		
A) Automatic		PSE Report# PSE452
B) Manual	Indeterminable	
ULTC capability	T1, T2, T3, T4: NO ULTC	

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Description	Kootenay Ganal GS	Reference For Additional Information
1. Time for Vf to change from rated to 0.95% following a large step change	G1 - G4; 0.005 sec	PSE Report# PSE462
2. Negative field voltage capability	-5.59 p.u. at 100.4 Vbase	PSE Report# PSE462
3. PSS	G1-G4	
C.6 Voltage Regulator when generator in Synchronous Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G1 - G4: 1.1 p.u.	PSE Report# PSE462
B) Minimum Voltage	G1 - G4; 0.8 p.u.	PSE Report# PSE462
C.7 Excitation System Limiters	Sector and the sector of the sector se	
1. OELs (Terminal Voltage/Field Current/V/Hz)	Field Current limiters acts to to limit If to 1840A; Terminal Voltage limits max voltage to 14.9kV	PSE Report# PSE462
2. UELs (Reactive Ampere Limiting)	Minimum Excitation limit: 0.93 p.u.	PSE Report# PSE462
C.8 Off-Nominal Frequency Operation		
2. O/F and U/F settings (Unit)	81G O/F relay: 66 Hz for 50 sec	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained OV protection: 120% of rated voltage with inverse time characteristics. Instantaneous OV protection at 139%;no U/V protection	P1 Sheets
C.10 Governor Specifications		
. Speed Droop	G1, G2, G3, G4 = 4%	PSE Report# PSE462
Dead Band	0.02% or less	

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Description	Kootenay Canal GS	Reference For Additional Information
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for KCL	
E.1 Operations Control and Telecommunications Facilities E.1.1 Remote Control Facility and Control		
Center	RTU 053 / RTU 054	A
Remote Control Facility Control Center	SIC / SCC, SIC	Communication Block Diagram Communication Block Diagram
Control Points	Point Assignment	217-R05-A45 Sh 1 to 9 / 217-R05-A46 Sh 1 to 50
Point Assignment	217-R05-A45 Sh 1 to 9 / 217-R05-A46 Sh 1 to 50	
Communication Block Diagram	217-R05-80 (All Sheets)	
E 1.2 Automatic Generation Control System (AGC)	No / Yes	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	Yes	"http://w3/ld/pcontrol/Subsites/Planning/pd/ RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	217-R05-A45 Sh 1 to 9 / 217-R05-A46 Sh 1 to 50
E.1.5 Alarm Points	Point Assignment	217-R05-A45 Sh 1 to 9 / 217-R05-A48 Sh 1 to 50
E.1.6 Equipment Status	Point Assignment	217-R05-A45 Sh.1 to 9 / 217-R05-A46 Sh.1 to 50
E.1.7 Bettery/Charger System		Telecontrol Manual Unit 22 Section 1
System	48V DC System	217-R16-B12
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Digital Radio	

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Description	Ladore Falls GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1, 13CB2	One Line Diagram: 1011-E14-A0001 LOO: 3P05-04A 514-E06-D2
8.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	1CB1, 2 = 1200A	One Line Disgram Dwg No. 1011-E14-A0001
B) Disconnect Switches	1DCB1, 1DCB2, 2DCB1, 2DCB2 = Not Available	One Line Diagram Dwg No. 1011-E14-A0001
2. Circuit breaker fault current rating	1CB1, 2 = 15kA	One Line Diagram Dwg No. 1011-E14-A0001
C.3 Generator Max Power Output		
Nameplate	G1, G2: 30 MVA, 0.90 p.f., 13.8kV rated voltage	Powertech Report# 12137-21-00 LDR-1
MPÖ (plant)	47 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P05-04A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	Powertech Report# 12137-21-00 LDR-1
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
ULTC capability	T1, T2: No ULTC	
C.5 Excitation Equipment		
 Time for Vf to change from rated to 0.95% bilowing a large step change 	G1: 0.03 sec	
. Negative field voltage capability	-6.63 p.u. at 78.01 Vbase	Exciter Single Line: 514-H05-D1021 SH. SAA
1. PSS	Feature Not Equipped	

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Description	Ladore Falls GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1, G2: 1.1 p.u.	
B) Minimum Voltage	G1, G2, 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	None	Powertech Report# 12137-21-00 LDR-1
2. UELs (Reactive Ampere Limiting)	For UEL curves, see reference	Powertech Report# 12137-21-00 LDR-1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	There is no 81 for U/F or O/F but overspeed relay 12 is set at 1.3 p.u.	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. OfV and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained OV protection: 109% of rated voltage with inverse time characteristics; no UV protection	Pt Sheets
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for LDR	
E.1 Operations Control and Telecommunications Facilities		
1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 055	Communication Block Diagram
Control Center	JHT / VIC	Communication Block Diagram

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Description	Ladore Falls GS	Reference For Additional Information
Control Points	Point Assignment	514-R05-A10 Sh 1 & 12
Point Assignment	514-R05-A10 Sh.1 & 12	
Communication Block Diagram	514-R06-D0 Sh 1 & 2	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummery.pdf"
E.1.4 Telemetry	Point Assignment	514-R05-A10 Sh 1 & 12
E.1.6 Alarm Points	Point Assignment	514-R05-A10 Sh 1 & 12
E.1.6 Equipment Status	Point Assignment	514-R05-A10 Sh.1 & 12
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	48V DC System	514-R16-B20
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Digital Radio	

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Description	Bridge River 1 GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1, 13CB2, 13CB3, 13CB4	"1-line dwg: 621-H05-D50 R3 & D51 R1 LOO: 3P05-21A
B.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1-4 = 3000A	One Line Diagram Dwg No. 621-H05-D50
B) Disconnect Switches	No Disconnects	One Line Diagram Dwg No. 621-H06-D50
2. Circuit breaker fault current rating	13CB1-4 = 40kA	One Line Diagram Dwg No. 621-H06-D50
C.3 Generator Max Power Output		
Nameplate	G1 - G4: 50 MVA at 0.95 p.f., 13.8kV rated voltage	Powertech Report# 11464-21-00 BR1-2
MPO (plant)	191 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage , adjustment by BCTC	Full	Local Operating Order: 3P05-21A
3. Line-Drop-Compensation (LDC) equipment and setting	AVR: -0.041	Powertech Report# 11464-21-00 BR1-2
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1-G4: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
5. ULTC capability	T1,T2: No ULTC	
C.5 Excitation Equipment		
1. Time for VI to change from rated to 0.95% clowing a large step change	G1-G4: 0.05	
. Negative field voltage capability	-3.2 p.u. at 82.04 Vbase	
. PSS	G1-G4	

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Description	Bridge River 1 GS	Reference For Additional Information
C.5 Voltage Regulator when generator in Synchronous Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G1-G4; 1.1 p.u.	Powertech Report# 11464-21-00 BR1-2
B) Minimum Voltage	G1-G4: 0.8 p.u.	Powertech Report# 11464-21-00 BR1-2
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current/V/Hz)	G1,G3,G3,G4: OEL starts at 780A field current; V/Hz = 1.1 p.u.	Powertech Report# 11464-21-00 BR1-2
2. UELs (Reactive Ampere Limiting)	G1: UEL at -24MAR; G2: UEL at -25MVAR; G3: UEL at -24.5MVAR; G4: UEL at -25MVAR	Powertech Report# 11454-21-00 BR1-2
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G O/F relay: 66 Hz for more that 50 sec	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. OIV and UIV capability (Unit)		
2. OV and U/V settings (Unit)	59G O/V protection: 114% sustained and 140% instantaneous; no U/V protection	PI Sheets
C.10 Governor Specifications		
. Speed Droop	G1, G2: 7%; G3 = 4.5%; G4 = 4%	Powertech Report# 11464-21-00 BR1-2
2. Dead Band	0.02% or less	
0.1 General Protective Relay Requirements		
. Relay Information	See Generating Station P&C Setting Sheets for BR1, also see Protection Information on SIS	P&C Setting Sheets: Generation Projects SIS: BCH Intranet

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Description	Bridge River 1 GS	Reference For Additional Information
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 006 / RTU 007	Communication Block Diagram
Control Center	SIC / SIC, SCC	Communication Block Diagram
Control Points	Point Assignment	
Point Assignment	621-R05-A123 Sh.1 to 23 / 621-R05-A124 Sh.1 to 11	621-R05-A123 Sh.1 to 23 / 621-R05-A124 Sh.1 to 11
Communication Block Diagram	621-R06-D0 Sh 1 to Sh 5	
E.1.2 Automatic Generation Control System (AGC)	Yes	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	Yes	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	621-R05-A123 Sh.1 to 23 / 621-R05-A124 Sh.1 to 11
E.1.5 Alarm Points	Point Assignment	621-R05-A123 Sh.1 to 23 / 621-R05-A124 Sh.1 to 11
E.1.6 Equipment Status	Point Assignment	621-R05-A123 Sh.1 to 23 / 621-R05-A124 Sh.1 to 11
1.7 Battery/Charger System	and the second of the second	Telecontrol Manual Unit 22 Section 1
System	24V DC System	621-R16-D38
E1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
elecommunications Media	Microwave Radio	

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Description	Bridge River 2 GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13C85, 13C80, 13C87, 13C88	One Line Diagram Dwg No. 622-H06-D1-R16 & D2 R17 LOO: 3P05-22A
B.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13C85-8: 4000A	One Line Diagram: 622-H06-D1, 2
B) Disconnect Switches	13DCB5-8 = 4000A; 3D5-8 = 2000A	One Line Disgram: 622-H06-D1, 2
2. Circuit breaker fault current rating	Not Available	
C.3 Generator Max Power Output	the second second second second second second second second second second second second second second second s	
Nameplate	G5 - G8: 65.25 MVA at 0.95 p.f., 13.8 kV rated voltage	Powertech Report# 11464-21-00 BR2-2
MPO (plant)	275 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		Construction of the second sec
1. Capability Curves	See Reference	Comptroller of Water Rights
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Ful	Local Operating Order: 3P05-22A
Line-Drop-Compensation (LDC) equipment and setting	Feature Not Available	Powertech Report# 11454-21-00 BR2-2
4. Joint Voltage Control Equipment	Feature Not Available	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G5-G8: 0.8 p.u 1.1 p.u.	Powertech Report# 11464-21-00 BR2-2
B) Manual	Indeterminable	
3. ULTC capability	T5-T8: No ULTC	
C.5 Excitation Equipment		
1. Time for VI to change from rated to 0.95% offowing a large step change	G5, G6; 2.0 sec; G6, G7; 2.5 sec	Powertoch Report# 11464-21-00 BR2-2
. Negative field voltage capability	-3.42 p.u. at 96.1 Vbase	Powertech Report# 11464-21-00 BR2-2
I. PSS	Feature Not Available	

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Description .	Bridge River 2 G5	Reference For Additional Information
C.5 Voltage Regulator when generator in Synchronous Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G5-G8: 1.1 p.u.	Powertech Report# 11464-21-00 BR2-2
8) Minimum Voltage	G5-G8: 0.8 p.u.	Powertech Report# 11464-21-00 BR2-2
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current/V/Hz)	G5: No OEL; Max set at 20MVAR G6: No OEL; Max set at 24MVAR G7: No OEL; Max set at 30MVAR G8: No OEL Max field current of 900A	Powertech Report# 11454-21-00 BR2-2
2. UELs (Reactive Ampere Limiting)	G5: No UEL; Min Stator Current of 2900 A G6: No UEL; Min Stator Current of 3100 A G7: No UEL; Min Reactive Power at -30MVAR G5: No UEL; Min Stator Current of 3300 A	Powertech Report# 11454-21-00 BR2-2
C.8 Off-Nominal Frequency Operation		
1. Q/F and U/F capability (Unit)		
2. C/F and U/F settings (Unit)	No O/F and U/F protection. Overspeed trip set at 410 rpm (137%)	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	51G sustained O/V protection: 114% overvoltage with inverse time characteristics; no U/V protection	PI Sheets
C.10 Governor Specifications		and the second second second
Speed Droop	G5, G7: 5%; G5 = 7.3%; G8 = 8%	Powertech Report# 11464-21-00 BR2-2
. Dead Band	0.02% or less	

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Description	Bridge River 2 GS	Reference For Additional Information
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for BR2	
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 008 / RTU 009	Communication Block Diagram
Control Center	SIC / SCC, SIC	Communication Block Diagram
Control Points	Yes	Point Assignment
Point Assignment	622-R05-A15 Sh.1 to 21/622-R05-A16 Sh.1 & 9	622-R05-A15 Sh.1 to 21 / 622-R05-A16 Sh.1 & 9
Communication Block Diagram	622-R06-D0 Sh.1 & Sh.2	
E.1.2 Automatic Generation Control System (AGC)	Yes	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	Yes	"http://w3/td/pcontrol/Subsites/Planning/pd /RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	622-R05-A15 Sh.1 to 21 / 622-R05-A16 Sh.1 & 9
E.1.5 Alarm Points	Point Assignment	622-R05-A15 Sh.1 to 21 / 622-R05-A16 Sh.1 & 9
E.1.6 Equipment Status		622-R05-A15 Sh 1 to 21 / 622-R05-A16 Sh 1 & 9
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	622-R16-D18
E.1.8 Revenue Metering System		Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Microwave Radio	

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See. .

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Description	Wahleach GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1, 13CB11	One Line Diagram Dwg No. 425-E06-B0003 R001 & LOO: 3P05-84A
B.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1, 11: 4000A	Single Line Diagram: 425-H06-D1
B) Disconnect Switches	Not Available	Single Line Diagram: 425-H06-D1
2. Circuit breaker fault current rating	13CB1, 11: 38kA	Single Line Diagram: 425-H06-D1
C.3 Generator Max Power Output		
Nameplate	G1: 75 MVA, 0.80 p.f., 13.8kV rated voltage	Powertech Report# 12045-21-00 WAH-1
MPO (plant)	64 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P05-84A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	Powertech Report# 12045-21-00 WAH-1
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	
8) Manual	Indeferminable	
8. ULTC capability	T1 No ULTC	
C.5 Excitation Equipment		
Time for VI to change from rated to 0.95% blowing a large step change	G1: 0.03 sec	
. Negative field voltage capability	-4.01 p.u. at 110.8 Vbase	Exciter Single Line: 425-H06-D211 SH. SAA
PSS	Feature Not Equipped	

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ACCEPTED:_____

Description	Wahleach GS	Reference For Additional Information
C.6 Voltage Regulator when		
generator in Synchronous		
Condenser Mode or Minimum MW	1	
Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
B) Minimum Voltage	G1: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	None	Powertech Report# 12045-21-00 WAH-1
2. UELs (Reactive Ampere Limiting)	None	Powertech Report# 12045-21-00 WAH-1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	There is no 81 for U/F or O/F but overspeed relay 12 is set at 1.25 p.u.	PI Sheels
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G instantaneous OV protection: 136% of rated voltage: no UV protection	PI Sheets
D.1 General Protective Relay Requirements		
1. Relay information	See Generating Station P&C Setting Sheets for WAH	
E.1 Operations Control and		
Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 106 / Not Available	Communication Block Diagram
Control Center	SCC/LMC	Communication Block Diagram

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Description	Wahleach GS	Reference For Additional Information
Control Points	Point Assignment	425-R05-A32 Sh.1 to 7 425-H05-A28 Sh.1 to 7
Point Assignment	425-R05-A32 Sh.1 to 7 425-H05-A28 Sh.1 to 7	
Communication Block Diagram	425-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	Thttp://w3/td/pcontrol/Subsites/Planning/pd/ RASSummary.pdf
E.1.4 Telemetry	Point Assignment	425-R05-A32 Sh.1 to 7 425-H05-A28 Sh.1 to 7
E.1.5 Alarm Points	Point Assignment	425-R05-A32 Sh.1 to 7 425-H05-A28 Sh.1 to 7
E.1.6 Equipment Status	Point Assignment	425-R05-A32 Sh.1 to 7 425-H05-A28 Sh.1 to 7
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	425-R16-B51 Sh.1 to C2
E.1.8 Revenue Metering System	Feature Not Equipped	
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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Description	Seton GS	Reference For Additional Information	
B.2 Synchronization			
Gircuit Breaker (s) used	60CB1	One Line Diagram Dwg No. 623-E05-U0001 R003 & LOO: 3P05-25A	
B.3 Blackstart			
Blackstart Capability	No		
C.2 Switchgear Ratings			
1. Continuous			
A) Circuit Breakers	60C81 = 2000A	One Line Diagram Dwg No. 623-E06-U0001 R003	
B) Disconnect Switches	60DCB1 = 2000A	One Line Diagram Dwg No. 623-E06-U0001 R003	
2. Circuit breeker fault current rating	60CB1 = 20kA	One Line Diagram Dwg No. 623-E06-U0001 R003	
C.3 Generator Max Power Output			
Nameplate	G1: 42 MVA, 1.0 p.f., 13.8kV rated voltage	Powertech report# 11464-21-00 SON-2	
MPO (plant)	48 MW	Comptroller of Water Rights	
C.4 Generator Reactive Capability			
1. Capability Curves	See Reference	C.R.O.	
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P05-25A	
3. Line-Drop-Compensation (LDC) equipment and setting	AVR; -0.047 p.u.	Powertech report# 11464-21-00 SON-2	
I. Joint Voltage Control Equipment	Feature Not Equipped		
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint			
A) Automatic	G1: 0.8 p.u 1.1 p.u.	Powertech report# 11464-21-00 SON-2	
B) Manual	Indeterminable		
5. ULTC capability	T1: No ULTC		
C.5 Excitation Equipment			
Time for VI to change from rated to 0.95% ollowing a large step change	G1: 1.4 sec	Powertech report# 11464-21-00 SON-2	
Negative field voltage capability	-2.37 p.u. at 103.2 Vbase	Powertech report# 11464-21-00 SON-2	
PSS	Feature Not Equipped		

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Description	Seton GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1: 1,1 p.u.	Powertech report# 11454-21-00 SON-2
B) Minimum Voltage	G1: 0.8 p.u.	Powertech report# 11464-21-00 SON-2
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	There is no OEL for the unit. The maximum reactive power is reached with the maximum possible existation control	Powertech report# 11484-21-00 SON-2
2. UELs (Reactive Ampere Limiting)	There is no UEL for the unit. The minimum power is limited by the terminal voltage which can not fall below 13.2kV according to the operating order	Powertech report# 11464-21-00 SON-2
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G O/F relay: 64 Hz for 7.8 sec	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. OVV and UVV capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained O/V protection: 120% overvoltage with inverse time characteristics; no U/V protection	PI Sheets
D.1 General Protective Relay Requirements		
I. Relay Information	See Generating Station P&C Setting Sheets for SON, also see Protection Information on SIS	
E.1 Operations Control and relecommunications Facilities		

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ACCEPTED:_____

Description	Seton GS	Reference For Additional Information
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RIU 503	Communication Block Diagram
Control Center	SIC	Communication Block Diagram
Control Points	Point Assignment	623-R05-A6 Sh 1 to 11
Point Assignment	623-R05-A6 Sh.1 to 11	
Communication Block Diagram	623-R06-D0 Sh.1 & 2	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pd// RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	623-R05-A6 Sh 1 to 11
E.1.5 Alarm Points	Point Assignment	623-R05-A6 Sh.1 to 11
E.1.6 Equipment Status	Point Assignment	623-R05-A6 Sh.1 to 11
.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	623-R16-B8
.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
elecommunications Media	Microwave Radio	

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Description	Lajole GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	60C81	One Line Diagram: 620-E06-B0001 R007 LOO: 3P05-24A
B.3 Blackstart		
Blackstart Capability	Yes, 1 - 250kVA Diesel Genset	LOO: 3P05-24A
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	60CB1 = 2000A	One Line Diagram Dwg No. 620-E06-80001 R007
B) Disconnect Switches	60DCB1 = Not Available	One Line Diagram Dwg No. 620-E06-B0001 R007
2. Circuit breaker fault current rating	Not Available	One Line Diagram Dwg No. 620-E06-B0001 R007
C.3 Generator Max Power Output		
Nameplate	G1: 24.44 MVA, 0.90 p.f., 13.8kV rated voltage	Powertech Report # 11464-21-00 LAJ-2
MPO (plant)	25 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P05-24A
 Line-Drop-Compensation (LDC) equipment and setting 	Feature Not Equipped	Powertech Report # 11454-21-00 LAJ-2
Joint Voltage Control Equipment	Feature Not Equipped	
 Generator Voltage Regulator minimum and Maximum Voltage Setpoint 		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	Powertech Report # 11464-21-00 LAJ-2
B) Manual	Indeterminable	
. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
. Time for VI to change from rated to 0.95% blowing a large step change	G1: 2.14 sec	Powertech Report # 11464-21-00 LAJ-2
. Negative field voltage capability	-4.69 p.u. at 100.21 Vbase	Powertech Report # 11464-21-00 LAJ-2
PSS	Feature Not Equipped	

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Description	Laloie GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
B) Minimum Voltage	G1: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	OEL is set at 9 amp for the pilot exciter field current; There is no VMz limiter for the unit	Powertech Report # 11464-21-00 LAJ-2
2. UELs (Reactive Ampere Limiting)	There is no UEL for this unit. The minimum reactive power is limited by the generator stator current.	Powertech Report # 11464-21-00 LAJ-2
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G time delayed O/F relay. 62 Hz	PI Sheets
C.9 Off-Nominal Voltage Operation		(C
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained O/V protection: 122% of rated voltage with inverse time characteristics; no U/V protection	PI Sheets
D.1 General Protective Relay Regularements		
1. Relay Information	See Generating Station P&C Setting Sheets for LAJ	
E.1 Operations Control and Telecommunications Facilities		

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Description	Laiole GS	Reference For Additional Information
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	R/U 501	Communication Block Diagram
Control Center	SIC	Communication Block Diagram
Control Points	Point Assignment	620-R05-A6 Sh.1 to 10
Point Assignment	620-R05-A6 Sh.1 to 10	
Communication Block Diagram	620-R06-D0	
E.1.2 Autometic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf/R ASSummary.pdf"
E.1.4 Telemetry	Point Assignment	620-R05-A6 Sh.1 to 10
E.1.5 Alarm Points	Point Assignment	620-R05-A6 Sh.1 to 10
E.1.5 Equipment Status	Point Assignment	620-R05-A6 Sh.1 to 10
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	620-R16-B7
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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Description	Falls River GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	6.6CB1, 6.8CB2, 6.8CB4	One Line Diagram Dwg No. 908-E06-C0006 & LOO: 3P05-42A
B.3 Blackstart		
Blackstart Capability	Yes, 1-100kW, 600V AC Diesel Genset	LOO: 3P05-42A
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	6.6CB1 = 800A; 6.6CB2,4 = 1200A	One Line Diegram Dwg No. 908-E06-C0008
B) Disconnect Switches	6.6DC82 = 1200A; 6.6D1,2 = 400A	One Line Diagram Dwg No. 908–E06–C0008
2. Circuit breaker fault current rating	Not Available	One Line Diagram Dwg No. 908-E06-C0008
C.3 Generator Max Power Output		
Nameplate	G1, G2 6 MVA, 0.8 p.f., 6.6kV rated voltage	Generator Data Book
MPO (plant)	7 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O., Generator Data Book
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	+
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
3. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
. Time for VI to change from rated to 0.95% blowing a large step change	Not Available	
Negative field voltage capability	Not Available	
. PSS	Feature Not Available	

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Description	Falls River GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1, G2: 1.1 p.u.	
B) Minimum Voltage	G1, G2: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Not Available	
2. UELs (Reactive Ampere Limiting)	Not Available	
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	No U/F or C/F protection but rotor overspeed protection al 150%	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		2
2. O/V and U/V settings (Unit)	59G sustained O/V protection at 112% of rated voltage for 10 sec with inverse time characteristics; U/V at 80% for 6 sec	Pf Sheets
D.1 General Protective Relay Requirements		
I. Relay Information	See Generating Station P&C Setting Sheets for FLS, also see Protection Information on SIS	
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	S297, T188	Communication Block Diagram
Control Center	NCC	Communication Block Diagram

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Description	Falle River GS	Reference For Additional Information
Control Points	Point Assignment	
Point Assignment	839-R05-85 Sh.27A, 278 & 27C	839-R05-85 Sh.27A, 27B & 27C
Communication Block Diagram	908-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	839-R05-B5 Sh.27A, 27B & 27C
E.1.5 Alarm Points	Point Assignment	839-R05-85 Sh 27A, 278 & 27C
E.1.6 Equipment Status	Point Assignment	839-R05-85 Sh.27A, 27B & 27C
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	908-R16-B7
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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Description	Ash River GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1	One Line Diagram: 534-E06-B14 LOO: 3P05-02A
B.3 Blackstart		
Blackstart Capability	Yes, 1-100kW, 600V AC Diesel Generator	LOO: 3P05-02A
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1 = 2000A	One Line Diagram Dwg No. 534-E06-B14
B) Disconnect Switches	13D1 = 2000A, 1D1 = 600A	One Line Diagram Dwg No. 634-E05-814
2. Circuit breaker fault current rating	13CB1 = 20kA	One Line Diagram Dwg No. 534-E06-B14
C.3 Generator Max Power Output		
Nameplate	G1: 28.0 MVA, 0.90 p.f., 13.8kV rated voltage	Powertech Report# 12137-21-00 ASH-1
MPO (plant)	28 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.; Contact: Larry Nettleton/Shane Kronebush
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Ful	Local Operating Order: 3P05-02A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Available	Powertech Report# 12137-21-00 ASH-1
4. Joint Voltage Control Equipment	Feature Not Available	
5. Generator Voltage Regulator minimum and Meximum Voltage Setpoint		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	Powertech Report# 12137-21-00 ASH-1
B) Manual	Indeterminable	
5. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
 Time for VI to change from rated to 0.95% ollowing a large step change 	G1: 0.03 sec	
. Negative field voltage capability	-4.64 p.u. at 111.54 Vbase	Exciter Single Line: 534-H06-D60 SH. SA

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ACCEPTED:_____

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Description	Ash River GS	Reference For Additional Information
3. PSS	Feature Not Available	
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
8) Minimum Voltage	G1: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	None	Powertech Report# 12137-21-00 ASH-1
2. UELs (Reactive Ampere Limiting)	For UEL curve, see reference	Powertech Report# 12137-21-00 ASH-1
C.8 Off-Nominal Frequency Operation		
1. O/F end U/F capability (Unit)		
2. O/F and U/F settings (Unit)	No 81G O/F or U/F protection but 12G initiates shutdown in case of overspeed	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. OV and UV capability (Unit)		
2. O/V and U/V settings (Unit)	59G O/V protection set at 130%; 27G U/V set at 56%	PI Sheets
D.1 General Protective Relay Requirements		
. Relay Information	See Generating Station P&C Setting Sheets for ASH, also see Protection Information on SIS	P&C Setting Sheets LOO: 3P05-02A
E.1 Operations Control and relecommunications Facilities		
.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RIU 506	Communication Block Diagram
Control Center	VIC	Communication Block Diagram

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ACCEPTED:_____

Description	Ash River GS	Reference For Additional Information
Control Points	Point Assignment	534-R05-A12 Sh,1 to 7
Point Assignment	534-R05-A12 Sh.1 to 7	
Communication Block Diagram	534-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	534-R05-A12 Sh 1 to 7
E.1.5 Alarm Points	Point Assignment	534-R05-A12 Sh.1 to 7
E.1.6 Equipment Status	Point Assignment	534-R05-A12 Sh.1 to 7
E.1.7 Battery/Charger System	_	Telecontrol Manual Unit 22 Section 1
System	24V DC System	534-R16-B10
E.1.8 Revenue Metering System	Feature Not Available	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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ACCEPTED:_____

Description	Walter Hardman GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	4CB11, 4CB12	One Line Diagram Dwg No. 221-H06-D0001 R012 SH.1 & Dwg No. 221-H06-D0001 R012 SH.2 & LOC: 3P03-868
8.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	4CB1, 2, 11, 12 = 1200A	One Line Diagram: 221-P06-B2
B) Disconnect Switches	No Disconnects	One Line Diagram: 221-P06-B2
2. Circuit breaker fault current rating	4CB1, 2, 11, 12 = 18kA	One Line Diagram: 221-P06-B2
C.3 Generator Max Power Output		
Nameplate	G1, G2: 5 MVA, 0.8 p.f., 4.33kV rated voltage	Generator Data Book
MPO (plant)	8 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O., Generator Data Book
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Fut	Local Operating Order: 3P03-868
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2; 0.8 p.u 1.1 p.u.	
8) Manual	Indeterminable	
5. ULTC capability	T6, T7; No ULTC	
C.5 Excitation Equipment		
Time for VI to change from rated to 0.95% clowing a large step change	Not Available	
. Negative field voltage capability	Not Available	
PSS	Feature Not Available	

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ACCEPTED:_____

Description	Walter Hardman GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		2
A) Maximum Voltage	G1, G2; 1,1 p.u.	
B) Minimum Voltage	G1, G2: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Not Available	
2. UELs (Reactive Ampere Limiting)	Not Available	
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G O/F relay: 65 Hz for more that 50 sec; 12M rotor overspeed protection at 150%	PI Sheeta
C.9 Off-Nominal Voltage Operation		
t. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained O/V protection at 120% of rated voltage with inverse time characteristics, and instantaneous protection at 140%	PI Sheets
D.1 General Protective Relay Regulrements		
. Relay Information	See Generating Station P&C Setting Sheets for WHN	
E.1 Operations Control and Telecommunications Facilities		
1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 107	Communication Block Diagram
Control Center	SIC	Communication Block Diagram
Control Points	Point Assignment	221-R05-A3 Sh.1 to 12

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ACCEPTED:_____

Description	Walter Hardman GS	Reference For Additional Information
Point Assignment	221-R05-A3 Sh.1 to 12	
Communication Block Diagram	221-R08-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pd/ RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	221-R05-A3 Sh.1 to 12
E.1.5 Alarm Points	Point Assignment	221-R05-A3 Sh 1 to 12
E.1.6 Equipment Status	Point Assignment	221-R05-A3 Sh 1 to 12
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	221-R16-A1 Sh.1 to D1
E.1.8 Rovenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Felecommunications Media	V.H.F. Radio to Illeoillewaet Substation	

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Generating Plant Agreement

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ACCEPTED:_____

Description	Clowholm Fails GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13CB1	One Line Diagram Dwg No. 404-E05-U0001 R002 & LOO: 3P05-62A
B.3 Blackstart		
Blackstart Capability	Yes; 175KVA, 120/208V at 1800rpm	LOO: 3P05-62A
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1 = 1400 A	One Line Diagram Dwg No. 404-E06-U0001 R002
B) Disconnect Switches	No Disconnects	One Line Diagram Dwg No. 404-E08-U0001 R002
2. Circuit breaker fault current rating	13CB1 = 19.3 kA	One Line Diagram Dwg No. 404-E06-U0001 R002
C.3 Generator Max Power Output		
Nameplate	G1: 31.58 MVA, 0.95 p.f., 13.8kV rated voltage	Powertech Report# 12137-21-00 COM-1
MPO (plant)	33 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Ful	Local Operating Order: 3P05-62A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Available	Powertech Report# 12137-21-00 COM-1
. Joint Voltage Control Equipment	Feature Not Available	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	
8) Manual	Indeterminable	
3. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
Time for Vf to change from rated to 0.95% clowing a large step change	G1: 0.95 sec	Powertech Report# 12137-21-00 COM-1
. Negative field voltage capability	-3.2 p.u. at 102 Vbase	Powertech Report# 12137-21-00 COM-1
PSS	Feature Not Available	

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ACCEPTED:_____

Description	Clowholm Falls GS	Reference For Additional Information
C.6 Voltage Regulator when		
generator in Synchronous		
Condenser Mode or Minimum MW		
Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
8) Minimum Voltage	G1: 0.8 p.u.	
C.7 Excitation System Limiters		and a standard second second second
1. OELs (Terminal Voltage/Field Current)	None	Powertech Report# 12137-21-00 COM-1
2. UELs (Reactive Ampere Limiting)	For UEL curve, see reference	Powerlech Report# 12137-21-00 COM-1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	There is no 81 for U/F or O/F but overspeed relay 12 is set at 1.25 p.u. The timer is set at 120 seconds	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	50L sustained O/V protection: 122% of rated voltage with inverse time characteristics; no U/V protection	P1 Sheets
D.1 General Protective Relay Requirements		
I. Relay Information	See Generating Station P&C Setting Sheets for COM, also see Protection Information on SIS	
1 Operations Control and elecommunications Facilities		
1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 018 / \$233, T1 19	Communication Block Diagram

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ACCEPTED:_____

Description	Clowholm Falls GS	Reference For Additional Information
Control Center	SOC / LMC	Communication Block Diagram
Control Points	Point Assignment	404-R05-A3 Sh.1 to 5 / 404-H05-A7
Point Assignment	404-R05-A3 Sh.1 to 5 / 404-H05-A7	
Communication Block Diagram	404-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	404-R05-A3 Sh.1 to 5 / 404-H05-A7
E.1.5 Alarm Points	Point Assignment	404-R05-A3 Sh 1 to 5 / 404-H05-A7
E.1.6 Equipment Status	Point Assignment	404-R05-A3 Sh.1 to 5 / 404-H05-A7
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	Not Available
Reference	And the second second second second second second second second second second second second second second second	
E.1.6 Revenue Metering System	Feature Not Available	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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ACCEPTED:_____

Description	Alouette GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	6.6C81	One Line Diagram : 421-E05-D1-R2 LOO: 3P05-81A
B.3 Blackstart		
Blackstart Capability	Yes, 1 - 75kW, 120/208V AC Diesel Genset	LOO: 3P05-81A
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	6.6CB1 = 1200A	One Line Diagram Dwg No. 421-E06-D1-R2
B) Disconnect Switches	6.6D1, 6.6DCB1, 60D1 = Not Available	One Line Diagram Dwg No. 421-E08-D1-R2
2. Circuit breaker fault current rating	6.6CB1 = 18kA	One Line Diagram Dwg No. 421-E06-D1-R2
C.3 Generator Max Power Output		
Nameplate	G1: 10 MVA, 0.8 p.f., 6.83kV rated voltage	Generator Data Book
MPO (plant)	9 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O., Generator Data Book
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	LOO: 3P05-81A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1:08p.u 1.1p.u.	
8) Manual	Indeterminable	
3. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
Time for VI to change from rated to 0.95% oflowing a large step change	No: Available	
. Negative field voltage capability	Not Available	
PSS	Feature Not Available	

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ACCEPTED:_____

Description	Alouette GS	Reference For Additional Information
C.6 Voltage Regulator when		
generator in Synchronous		
Condenser Mode or Minimum MW		
Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
B) Minimum Voltage	G1: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Not Available	
2. UELs (Reactive Ampere Limiting)	Not Available	
C.8 Off-Nominal Frequency		
Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	Time delayed O/F at 62.5 Hz and U/F at 56.0 Hz	P1 Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	Instantaneous OV at 118%, sustained O/V at 111% with inverse time characteristics	PI Sheets
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for ALU	
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 145	Communication Block Diagram

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ACCEPTED:_____

Description	Alouette GS	Reference For Additional Information
Control Center	LMC	Communication Block Diagram
Control Points	Point Assignment	
Point Assignment	421-R05-A3 Sh.1 to 8	421-R05-A3 Sh.1 to 8
Communication Block Diagram	421-R08-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pd//R ASSummary.pdf"
E.1.4 Telemetry	Point Assignment	421-R05-A3 Sh,1 to 8
E.1.5 Alarm Points	Point Assignment	421-R05-A3 Sh.1 to 8
E.1.6 Equipment Status	Point Assignment	421-R05-A3 Sh 1 to 8
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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ACCEPTED:_____

Description	Lake Buntzen 1 GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	60CB1	One Line Diagram: 419-E06-D0032 R000 & LOO: 3P01-38 LB1
B.3 Blackstart		
Blackstart Capability	Yes, 150kW, 480V AC Diesel Genset	LOO: 3P01-38 LB1
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	60CB1 = 800A	One Line Diagram: 419-E05-D0032 R000
B) Disconnect Switches	60DCB1 = Not Available	One Line Diagram: 419-E06-D0032 R000
2. Circuit breaker fault current rating	60CB1 = 10kA	One Line Diagram: 419-E06-D0032 R000
C.3 Generator Max Power Output		
Nameplate	G1: 62.5 MVA, 0.80 p.f., 13.8kV rated voltage	Powertech Report# 12137-21-00 LB1-1
MPO (plant)	55 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P01-38 LB1
3. Line-Drop-Compensation (LDC) aquioment and setting	Feature Not Equipped	Powertech Report# 12137-21-00 LB1-1
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
I. Time for Vf to change from rated to 0.95% ollowing a large step change	G1: 1.2 sec	Powertech Report# 12137-21-00 LB1-1
. Negative field voltage capability	Zero	Powertech Report# 12137-21-00 LB1-1
1 PSS	Feature Not Equipped	

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ACCEPTED:_____

Description	Lake Buntzen 1 GS	Reference For Additional Information
C.6 Voltage Regulator when		1
generator in Synchronous		
Condenser Mode or Minimum MW		1
Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
8) Minimum Voltage	G1:0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	None	Powertech Report# 12137-21-00 LB1-1
2. UELs (Reactive Ampere Limiting)	None	Powertech Report# 12137-21-00 LB1-1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	There is no 81 for U/F or O/F but overspeed relay 12 is set at 1.33 p.u.	Pl Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained OV protection: 130% of rated voltage with inverse time characteristics; no U/V protection	PI Sheets
D.1 General Protective Relay Requirements	protection	
I. Relay Information	See Generating Station P&C Setting Sheets for LB1	
E.1 Operations Control and relecommunications Facilities		
1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 057 / S240, T125	Communication Block Diagram
Control Center	SCC / LMC	Communication Block Diagram

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ACCEPTED:_____

Description	Lake Buntzen 1 GS	Reference For Additional Information
Control Points	Point Assignment	419-R05-A8 Sh.1 to 7 / 419-R05-A11 Sh.1 to 4
Point Assignment	419-R05-A8 Sh.1 to 7 / 419-R05-A11 Sh.1 to 4	
Communication Block Diagram	419-R06-D0 SH 1 & 2 / 420-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdl/RAS Summary.pdf"
E.1.4 Telemetry	Point Assignment	419-R05-A8 Sh.1 to 7 / 419-R05-A11 Sh.1 to 4
E.1.5 Alarm Points	Point Assignment	419-R05-A8 Sh.1 to 7 / 419-R05-A11 Sh.1 to 4
E.1.6 Equipment Status	Point Assignment	419-R05-A8 Sh.1 to 7 / 419-R05-A11 Sh.1 to 4
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	419-R16-A17 Sh.1 to 17
Reference	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.1.8 Revenue Metering System		
E.2 Telecommunications Media		
Telecommunications Media	Telephone Lease to Coguitiam	

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ACCEPTED:_____

Description	Spillmacheen GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	60CB1, 4CB13	One Line Diagram Dwg No. 105-H06-D0001 R015 & LOO: 3P04-07F.
B.3 Blackstart		
Blackstart Capability	Yes, 1 - 62.5kVA AC Diesel Genset.	LOO: 3P04-07F
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	CB1, 2, 11, 12, 13: 600A	One Line Diagram Dwg No. 105-H06-D0001 R015
B) Disconnect Switches	No Disconnects	One Line Diagram Dwg No, 105-H06-D0001 R015
2. Circuit breaker fault current rating	CB1, 2, 11, 12, 13; 7.8kA	One Line Diagram Dwg No. 105-H06-D0001 R015
C.3 Generator Max Power Output		
Nameplate	G1, G2: 1.125 MVA, 0.85 p.f., 4.16kV rated voltage G3: 2.75 MVAI, 0.85 p.f., 4.16 rated voltage	Generator Data Book
MPO (plant)	4 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O., Generator Data Book
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	LOO: 3P04-07F
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
3. ULTC capability	T2: No ULTC	
C.5 Excitation Equipment		
. Time for VI to change from rated to 0.05% cllowing a large step change	Not Available	
Negative field voltage capability	Not Available	

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ACCEPTED:_____

Description	Spillmacheen GS	Reference For Additional Information
3. PSS	Feature Not Available	
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1, G2: 1.1 p.u.	
B) Minimum Voltage	G1, G2: 0.8 p.u.	
C.7 Excitation System Limiters		Contraction of the second second second second second second second second second second second second second s
1. OELs (Terminal Voltage/Field Current)	Not Available	
2. UELs (Reactive Ampere Limiting)	Not Available	
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	No O/F or U/F relays but rolor overspeed protection set at 110%	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. OW and UW settings (Unit)	No O/V or U/V protection	PI Sheets
D.1 General Protective Relay Requirements		
I. Relay Information	See Generating Station P&C Setting Sheets for SPN, also see Protection Information on SIS	
E.1 Operations Control and		
relecommunications Facilities		
1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 129	Communication Block Diagram
Control Center	SIC	Communication Block Diagram

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ACCEPTED:_____

Description	Spillmacheen GS	Reference For Additional Information
Control Points	Point Assignment	105-R05-A4 Sh 1 to 5 and SIC SCADA Database - Point Assignment
Point Assignment	105-R05-A4 Sh 1 to 5 and SIC SCADA Database - Point Assignment	
Communication Block Diagram	105-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf/ RASSummary.pdf"
E 1.4 Telemetry	Point Assignment	105-R05-A4 Sh 1 to 5 and SIC SCADA Detebase - Point Assignment
E.1.5 Alarm Points	Point Assignment	105-R05-A4 Sh 1 to 5 and SIC SCADA Database - Point Assignment
E.1.6 Equipment Status	Point Assignment	105-R05-A4 Sh 1 to 5 and SIC SCADA Database - Point Assignment
E.1.7 Battery/Charger System	24V DC System	Telecontrol Manual Unit 22 Section 1
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Telephone Lease to Golden Substation	

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ACCEPTED:_____

Description	MICA GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	16 CB 1, 2, 3, and 4	One Line Diagram Dwg No. 211-E04-D1401-R7 LOO: 3P03-16!
B.3 Blackstart		
Blackstart Capability	Yes, 2-400kW, 600V AC Diesel Genset	LOO: 6P03-35
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	16CB1 - 4 = 17.4kA	One Line Diagram Dwg No. 211-E04-D1401-R7
B) Disconnect Switches	5D1 - 4, 16, 17 = 3250A; 16DCB1, 4 = 17.4 kA	One Line Diagram Dwg No. 211-E04-D1401-R7
2. Circuit breaker fault current rating	16CB1 - 4 = Not Available	One Line Diagram Dwg No. 211-E04-D1401-R7
C.3 Generator Max Power Output		i contra contra de la
Nameplate	G1-G4: 457 MVA, 0.95 p.f., 16kV rated voltage	Report # PS-PSE-04
MPO (plant)	1805 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P03-16F,G,H
 Line-Drop-Compensation (LDC) equipment and setting 	Feature Not Equipped	
. Joint Voltage Control Equipment	The JVC circuitry exists but it is out of service	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1-G4: 0.8 p.u 1.1 p.u.	Report # PS-PSE-04
B) Manual	Indeterminable	
5. ULTC capability	T1 - T4: No ULTC	
C.5 Excitation Equipment		0
Time for VI to change from rated to 0.95% oldwing a large step change	G1-G4: 0.03 sec	Report # PS-PSE-04
. Negative field voltage capability	-6.5 p.u. at 146.97 Vbase	Report # PS-PSE-04
PSS	G1 - G4	

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ACCEPTED:_____

Description	MICA GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous		
Condenser Mode Or Minimum MW Mode		
A) Maximum Voltage	G1-G4: 1.1 p.u.	Report # PS-PSE-04
B) Minimum Voltage	G1-G4: 0.8 p.u.	Report # PS-PSE-04
C.7 Excitation System Limiters	•	
1. OELs (Terminal Voltage/Field Current/V/Hz)	Field Current limiters act to limit if to 3022A. Terminal Voltage limiter act to limit Vt to 17.6kV	Report # PS-PSE-04
2. UELs (Reactive Ampere Limiting)	For UEL curve(s), see reference	Report # PS-PSE-04, CRO
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G sustained O/F relay at 69Hz for 50 sec with inverse time delay characteristics; Overspeed protection at 145%	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. Q/V and U/V settings (Unit)	59G sustained O/V protection at 121% of rated voltage with inverse time characteristics, and instantaneous protection at 140%	P! Sheets
C.10 Governor Specifications		
1. Speed Droop	G1, G2, G3, G4 = 5%	Report # PS-PSE-04
2. Dead Band	0.02% or less	
D.1 General Protective Relay Requirements		

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Generating Plant Agreement

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ACCEPTED:_____

Description	MICA GS	Reference For Additional Information
1. Relay Information	See Generating Station P&C Setting Sheets for MCA	
E.1 Operations Control and		
Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 063 / RTU 064	Communication Block Diagram
Control Center	SIC / SCC, SIC	Communication Block Diagram
Control Points	Point Assignment	211-R05-A24 Sh.1 to 34 / 211-R05-A25 Sh.1 to 29
Point Assignment	211-R05-A24 Sh.1 to 34 / 211-R05-A25 Sh.1 to 29	
Communication Block Diagram	211-R06-80 Sh.1 to 13	
E.1.2 Automatic Generation Control System (AGC)	No / Yes	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	Yes	"http://w3/ld/pcontrol/Subsites/Planning/pd RASSummery.pdf"
E.1.4 Telemetry	Point Assignment	211-R05-A24 Sh 1 to 34 / 211-R05-A25 Sh 1 to 29
E.1.5 Alarm Points	Point Assignment	211-R05-A24 Sh 1 to 34 / 211-R05-A25 Sh 1 to 29
E.1.0 Equipment Status	Point Assignment	211-R05-A24 Sh 1 to 34 / 211-R05-A25 Sh 1 to 29
5.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	48V DC System	211-R16-B14 Sh.1 to D1
E1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
2.2 Telecommunications Media		
elecommunications Media	Digital Radio	

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ACCEPTED:_____

Description	Aberfeldie GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	2.4C81, 2.4C82, 2.4C84	One Line Diagram Dwg No. 111-E06-D1-R8 6. LOO: 3P04-01
B.3 Blackstart		
Blackstart Capability	Yes, 1-25kVA Diesel Genset	LOO: 3P04-01
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	2.4GB1 - 3: 1100A; 2.4GB4: 1500 A	One Line Diagram Dwg No. 111-E06-D1-R8
B) Disconnect Switches	2.4DCB1 - 4: Not Available	One Line Diagram Dwg No. 111-E06-D1-R8
2. Circuit breaker fault current rating	2.4C81 - 4; 37kA	One Line Diagram Dwg No. 111-E03-D1-R8
C.3 Generator Max Power Output		
Nameplate	G1, G2: 2.5 MVA, 0.9 p.f., 2.2kV rated voltage	Generator Data Book
MPO (plant)	5 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O., Generator Data Book
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	LOO: 3P04-01
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
J. ULTC capability	T1: No ULTC	
C.5 Excitation Equipment		
. Time for Vf to change from rated to 0.95% oflowing a large step change	Not Available	
Negative field voltage capability	Not Available	
L PSS	Feature Not Equipped	

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ACCEPTED:_____

Description	Aberfeldie GS	Reference For Additional Information
C.6 Voltage Regulator when		
generator in Synchronous		
Condenser Mode or Minimum MW		
Mode		
A) Maximum Voltage	G1, G2 = 1.1 p.u.	
8) Minimum Voltage	G1, G2 = 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Not Available	
2. UELs (Reactive Ampere Limiting)	Not Available	
C.8 Off-Nominal Frequency		
Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	No 81G but overspeed relay 12G is set to trip at 110%	PI Sheets
C.9 Off-Nominal Voltage Operation		
I. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained O/V protection at 2.5kV for 1 sec; instantaneous protection at 3.3kV	PI Sheets
D.1 General Protective Relay Requirements		
. Relay Information	See Generating Station P&C Setting Sheets for ABF, also see Protection Information on SIS	
E.1 Operations Control and		
elecommunications Facilities		
1.1 Remote Control Facility and Control Center		
Remote Control Facility	Not Available	Communication Block Diagram
Control Center	SIC	Communication Block Diagram
Control Points	SIC SCADA Database - Point Assignment	

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ACCEPTED:_____

Description	Aberfeldie GS	Reference For Additional Information
Point Assignment	SIC SCADA Database - Point Assignment	
Communication Block Diagram	111-R06-D0 Sh.1	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	http://w3/td/pcontrol/Subsites/Planning/pdf/F ASSummary.pdf
E.1.4 Telemetry	SIC SCADA Database - Point Assignment	
E.1.5 Alarm Points	SIC SCADA Database - Point Assignment	
E.1.6 Equipment Status	SIC SCADA Database - Point Assignment	
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	24V DC System	111-R16-A6 Sh.1 to C1
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Power Line Carrier	

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Generating Plant Agreement

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ACCEPTED:_____

Description	Elko GS	Reference For Additional Information
B.2 Synchronization	and the second second second second second second second second second second second second second second second	
Circuit Breaker (s) used	6.9CB1, 6.9CB2	One Line Diagram Dwg No. 112-E06-D0001 R008 & LOO: 3P04-03F
B.3 Blackstart	The second second second second second	
Blackstart Capability	Yes, 1-37.5kVA, 120/208V AC Diesel Genset	LOO: 3J04-03
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	6.6CB1, 2 = 600A	One Line Diagram Dwg No. 112-E05-D0001 R008
B) Disconnect Switches	6.9D181, 2 = 800A	One Line Diagram Dwg No. 112-E06-D00D1 R008
2. Circuit breaker fault current rating	Not Available	One Line Diagram Dwg No. 112-E06-D0001 R008
C.3 Generator Max Power Output		
Nameplate	G1, G2: 6 MVA, 0.8 p.f., 6.6kV rated voltage	Generator Data Book
MPO (plant)	12 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O., Generator Data Book
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	LOO: 3J04-03
Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
ULTC capability	T1-T2: No ULTC	
2.5 Excitation Equipment		
. Time for Vf to change from rated to 0.95% blowing a large step change	Not Available	
Negative field voltage capability	Not Available	
. PSS	Feature Not Equipped	

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ACCEPTED:_____

Description	Elko GS	Reference For Additional information
C.6 Voltage Regulator when		
generator in Synchronous		
Condenser Mode or Minimum MW		
Mode		
A) Maximum Voltage	G1: 1.1 p.u.	
8) Minimum Voltage	G1: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Not Available	
2. UELs (Reactive Ampere Limiting)	Not Available	
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	No O/F or U/F protection but rotor overspeed trip at 125%	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained O/V protection at 7.2kV of rated voltage with inverse time characteristics	PI Sheets
D.1 General Protective Relay Regulrements		
1. Relay Information	See Generating Station P&C Setting Sheets for ELK. also see Protection Information on SIS	
E.1 Operations Control and		
Telecommunications Facilities	the second s	
1.1 Remote Control Facility and Control Center		
Remote Control Facility	Not Available	Communication Block Diagram
Control Center	SIC	Communication Block Diagram
Control Points	SIC SCADA Database - Point Assignment	

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ACCEPTED:_____

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Description	Elko GS	Reference For Additional Information
Point Assignment	SIC SCADA Database - Point Assignment	
Communication Block Diagram	112-R06-D0	
E.1.2 Automatic Generation Control System (AGC)	Not Available	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/ld/pcontrol/Subsites/Planning/pdf RASSummary.pdf"
E.1.4 Telemetry	SIC SCADA Database - Point Assignment	
E 1.5 Alarm Points	SIC SCADA Database - Point Assignment	
E.1.6 Equipment Status	SIC SCADA Database - Point Assignment	
E.1.7 Battery/Charger System	Not Available	Telecontrol Manual Unit 22 Section 1
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
Telecommunications Media	Not Available	

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Description	Ruskin GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	60CB1, 60CB2, 60CB4	One Line Diagram Dwg No. 423-E06-D0001 R011 5. LOO: 3P05-82A
B.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	60CB1, 2, 4 = 1.2kA	One Line Diagram: 423-P06-89
B) Disconnect Switches	60DCB1, 2, 4 = 1.2kA	One Line Diagram: 423-P06-89
2. Circuit breaker fault current rating	60CB1, 2, 4 = 18kA	One Line Diagram: 423-P06-89
C.3 Generator Max Power Output		
Nameplate	G1, G2, G3: 44.0 MVA, 0.60 p.f., 13.6kV rated voltage	Powertech Report# 12045-21-00 RUS-1
MPO (plant)	105 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability	1	
1. Capability Curves	See Reference	CRO
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P05-82A
3. Line-Drop-Compensation (LDC) equipment and setting	Feeture Not Equipped	Powertech Report# 12045-21-00 RUS-1
. Joint Voltage Control Equipment	Feature Not Equipped	
. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1-G3: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
3. ULTC capability	T1, T2, T3: No ULTC	
C.5 Excitation Equipment		
I. Time for VI to change from rated to 0.95% ollowing a large step change	G1, G2, G3: 1.34 sec	Powertech Report# 12045-21-00 RUS-1
. Negative field voltage capability	Zero	Powertech Report# 12045-21-00 RUS-1
PSS	Feature Not Equipped	

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ORDER NO._____

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Description	Ruskin GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1-G3: 1.1 p.u.	
8) Minimum Voltage	G1-G3: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	None	Powertech Report# 12045-21-00 RUS-1
2. UELs (Reactive Ampere Limiting)	None	Powertech Report# 12045-21-00 RUS-1
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. Q/F and U/F settings (Unit)	There is no 81 for U/F or O/F but overspeed relay 12 Initiates shutdown in case of emergency	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. OV and UV capability (Unit)		*
2. O/V and U/V settings (Unit)	55G O/V protection starts at 104% of rated voltage with inverse time characteristics; 1.1 sec time limit for 146%; no U/V protection	PI Sheets
D.1 General Protective Relay Requirements		
. Relay Information	See Generating Station P&C Setting Sheets for RUS	
E.1 Operations Control and Telecommunications Facilities		
5.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 080 / ST26, T024	Communication Block Diagram
Control Center	SCG/LMC	Communication Block Diagram

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ACCEPTED:_____

Description	Ruskin GS	Reference For Additional Information	
Control Points	Point Assignment	423-R05-A26 Sh.1 to 6 / 423-H05-A21	
Point Assignment	423-R05-A26 Sh.1 to 6 / 423-H05-A21		
Communication Block Diagram	423-R05-B0 Sh 1 to 5		
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order	
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf RASSummary.pdf"	
E.1.4 Telemetry	Point Assignment	423-R05-A26 Sh 1 to 6 / 423-H05-A21	
E.1.5 Alarm Points	Point Assignment	423-R05-A26 Sh.1 to 6 / 423-H05-A21	
E.1.6 Equipment Status	Point Assignment	423-R05-A26 Sh.1 to 6 / 423-H05-A21	
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1	
System	48V DC System	423-R16-B8 Sh.1 to D1	
E.1.8 Revenue Metering System	Feature Not Equipped		
E.2 Telecommunications Media			
Telecommunications Media	Digital Radio		

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ACCEPTED:_____

Description	Burrard GS	Reference For Additional Informatio	
B.2 Synchronization			
Circuit Breaker (s) used	BGS has no generator breakers; switchyard ring bus breakers are used for connecting generators to the transmission system		
B.3 Blackstart			
Blackstart Cepability	No		
C.2 Switchgear Ratings			
1. Continuous		100 C	
A) Circuit Breakers	2C81-7,13 = 1600A; 2C810-12,14,15 = 2000A	One Line Diagrams Dwg No. 416D7-U1	
B) Disconnect Switches	2D1-6 = Not Available	One Line Diagrams Dwg No. 416D7-U1	
2. Circuit breaker fault current rating	2GB1-7,10-13 = 38kA; 2GB14,15 = 35kA	One Line Diagrams Dwg No. 416D7-U1	
C.3 Generator Max Power Output			
Nameplate	G1-G6: 180 MVA, 0.90 p.f., 16.5kV rated voltage	PSE Report# PSE289 for BGS	
MPO (plant)	972 MW	PSE Report# PSE289 for BGS	
C.4 Generator Reactive Capability			
1. Capability Curves	See Reference	C.R.O.	
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Ful	-	
3. Line-Drop-Compensation (LDC) equipment and setting	G2, G4, G5: 0.04 p.u.; G1, G3, G6: Not Available	PSE Report# PSE289 for BGS	
4. Joint Voltage Control Equipment	Feature Not Available		
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint			
A) Automatic	G1-G6: 0.9 p.u 1.05 p.u.		
8) Manual	Indeterminable		
3. ULTC capability	T1-T6: No ULTC		
C.5 Excitation Equipment			
. Time for Vf to change from rated to 0.95% ollowing a large step change		Powertech Report # 9634-97-REP2	
. Negative field voltage capability	G1, G3 = -3.9 p.u at 122 Vbase; G2, G4, G5 = -12.6 p.u. at 140 Vbase; G6 not available	PSE Report# PSE289 for BGS Powertech Report # 9634-97-REP2	

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ACCEPTED:_____

Description	Burrard GS	Reference For Additional Information
3. PSS	G1-G8	
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1-G6: 1.05 p.u.	
B) Minimum Voltage	G1-G5: 0.9 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Votage/Field Current)	Field Current limiters on all units act to to limit if to 2050A; Terminal Voltage limits max voltage to 18.15kV (1.1 p.u.)	PSE Report# PSE269 for BGS Powertech Report # 9634-97-REP2
2. UELs (Reactive Ampere Limiting)	For UEL curves/graph, see reference	PSE Report# PSE289 for BGS Powertech Report # 9634-97-REP2
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. OVF and UVF settings (Unit)	81G U/F relay: Alarm at 58.4Hz, 50 sec time-delayed U/F tripping at 57.5 Hz, instantaneous tripping at 55 Hz	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. OVV and U/V capability (Unit)		
2. OfV and U/V settings (Unit)	59G sustained OV protection: 109% of rated voltage with inverse time characteristics; instantaneous at 138%	PI Sheets
D.1 General Protective Relay Requirements		
I. Relay Information	See Generating Station P&C Setting Sheets for BGS. also see Protection Information on SIS	

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ACCEPTED:_____

Description	Burrard GS	Reference For Additional Information
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RIU 513	Communication Block Diagram
Control Center	SCC, LMC	Communication Block Diagram
Control Points	Point Assignment	416Z7-R05-A48 Sh.1 to 10
Point Assignment	416Z7-R05-A48 Sh.1 to 10	
Communication Block Diagram	41627-R06-B0 Sh 1 to Sh 15	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pd RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	41627-R05-A48 Sh 1 to 10
E.1.5 Alarm Points	Point Assignment	416Z7-R05-A48 Sh.1 to 10
E.1.6 Equipment Status	Point Assignment	416Z7-R05-A48 Sh 1 to 10
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	48V DC System	416Z7-R16-D55
Reference	Feature Not Available	Metering equipment is present but there is no revenue metering "system"
E.1.8 Revenue Metering System		
E.2 Telecommunications Media		
Felecommunications Media	Digital Radio	

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ACCEPTED:_____

Description	Prince Rupert GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	13C81, 13C82	LOO: 3P05-41A:922-E08-D1
B.3 Blackstart		
Blackstart Capability	Yes, RPG is a Gas Turbine generating station	LOO: 3P05-41A
C.2 Switchgear Ratings		
1. Continuous		
A) Circuit Breakers	13CB1, 2 = 2000A	One Line Diagram
B) Disconnect Switches	60D11, 12 = 800A	One Line Diagram
2. Circuit breaker fault current rating	13CB1, 2 = 20kA	One Line Diagram
C.3 Generator Max Power Output		
Nameplate	G1, G2: 27.1 MVA, 0.85 p.f., 13.8kV rated voltage	Powertch Report # 12045-21-00 RPG-1
MPO (plant)	46.1 MW	Powertch Report # 12045-21-00 RPG-1
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order:3P05-41A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.95 p.u 1.05 p.u.	Powertch Report # 12045-21-00 RPG-1
B) Manual	Indeterminable	
5. ULTG capability	T11, T12: No ULTC	
C.5 Excitation Equipment		
Time for Vf to change from rated to 0.95% oliowing a large step change	G1-G2; 1.1 sec	
. Negative field voltage capability	-4.0 p.u. at 60.5 Vbase	Powertch Report # 12045-21-00 RPG-1
. P85	Feature Not Equipped	
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		

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ACCEPTED:_____

Description	Prince Rupert GS	Reference For Additional Information	
A) Maximum Voltage	G1, G2: 1.05 p.u.	Powertch Report # 12045-21-00 RPG-1	
B) Minimum Voltage	G1, G2: 0.95 p.u.	Powertch Report # 12045-21-00 RPG-1	
C.7 Excitation System Limiters			
1. OELs (Terminal Voltage/Field Current)	OEL's operate in 30 seconds for 6 amps of pilot exciter		
2. UELs (Reactive Ampere Limiting)	For UEL curve(s), see reference	Powertch Report # 12045-21-00 RPG-1	
C.8 Off-Nominal Frequency Operation			
1. O/F and U/F capability (Unit)			
2. Q/F and U/F settings (Unit)	81G U/F relay picks up at 55 Hz with inverse time characteristics for shutdown	PI Sheets	
C.9 Off-Nominal Voltage Operation			
1. OfV and U/V capability (Unit)			
2. O/V and U/V settings (Unit)	59G sustained OV protection at 113% of rated voltage with inverse time characteristics.	PI Sheets	
D.1 General Protective Relay Requirements			
1. Relay Information	See Generating Station P&C Setting Sheets for RPG		
E.1 Operations Control and Telecommunications Facilities			
E.1.1 Remote Control Facility and Control Center			
Remote Control Facility	\$215, T102	Communication Block Diagram	
Control Center	NCC	Communication Block Diagram	
Control Points	Point Assignment	922-H04-A7	
Point Assignment	922-H04-A7		

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ACCEPTED:_____

Description	Prince Rupert GS	Reference For Additional Information
Communication Block Diagram	922-R06-D0, 905-R06-D0 Sh 1 to 3	
E.1.2 Automatic Generation Control System (AGC)	No	Point Assignment, Local Operating Order
E.1.3 Remedial Action Schemes (RAS)	No	"http://w3/td/pcontrol/Subsites/Planning/pdf/ RASSummary.pdf"
E.1.4 Telemetry	Point Assignment	922-H04-A7
E.1.5 Alarm Points	Point Assignment	922-H04-A7
E.1.6 Equipment Status	Point Assignment	922-H04-A7
E.1.7 Battery/Charger System		Telecontrol Manual Unit 22 Section 1
System	48V DC System	905-R16-B28
E.1.8 Revenue Metering System	Feature Not Equipped	Metering equipment is present but there is no revenue metering "system"
E.2 Telecommunications Media		
elecommunications Media	Power Line Carrier	

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ACCEPTED:_____

Description	Stave Fails GS	Reference For Additional Information
B.2 Synchronization		
Circuit Breaker (s) used	4C811, 12 and 13	One Line Diagram: 422-E06-D101 LOO: 3P05-85A
B.3 Blackstart		
Blackstart Capability	No	
C.2 Switchgear Ratings		
1. Continuous		a construction of the second second second second second second second second second second second second second
A) Circuit Breakers	60CB10, 20 = 1200A	One Line Diagram: 422-E05-D101
B) Disconnect Switches	13D1, D2 = 2500A; 60D1, D2 & 60DCB10, 20 = 1200A	One Line Diagram: 422-E06-D101
2. Circuit breaker fault current rating	60CB10, 20 = 31,5kA	One Line Diagram: 422-E06-D101
C.3 Generator Max Power Output		
Nameplate	G1-G2: 50 MVA, 0.9 p.f., 13.8kV rated voltage	
MPO (plant)	91 MW	Comptroller of Water Rights
C.4 Generator Reactive Capability		
1. Capability Curves	See Reference	C.R.O.
2. Unit/Plant MVar or terminal voltage adjustment by BCTC	Full	Local Operating Order: 3P05-85A
3. Line-Drop-Compensation (LDC) equipment and setting	Feature Not Equipped	
4. Joint Voltage Control Equipment	Feature Not Equipped	
5. Generator Voltage Regulator minimum and Maximum Voltage Setpoint		
A) Automatic	G1, G2: 0.8 p.u 1.1 p.u.	
B) Manual	Indeterminable	
5. ULTC capability	T1, T2: No ULTG	
C.5 Excitation Equipment		
 Time for Vf to change from rated to 0.95% following a large step change 	G1-G2: 0.03 sec	
2. Negative field voltage capability	-4.3 p.u. at 58 Vbase	
3. P\$\$	G1, G2	

2/02/2005

Generating Plant Agreement

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ACCEPTED:_____

Description	Stave Falls GS	Reference For Additional Information
C.6 Voltage Regulator when generator in Synchronous Condenser Mode or Minimum MW Mode		
A) Maximum Voltage	G1, G2: 1.1 p.u.	
B) Minimum Voltage	G1, G2: 0.8 p.u.	
C.7 Excitation System Limiters		
1. OELs (Terminal Voltage/Field Current)	Terminal Voltage limiter acts to limit the maximum terminal voltage to 1.1 p.u.	
2. UELs (Reactive Ampere Limiting)	For UEL curve(s), see reference	C.R.O.
C.8 Off-Nominal Frequency Operation		
1. O/F and U/F capability (Unit)		
2. O/F and U/F settings (Unit)	81G O/F relay: 65 Hz for more that 50 sec; 12M rotor overspeed protection at 150%	PI Sheets
C.9 Off-Nominal Voltage Operation		
1. O/V and U/V capability (Unit)		
2. O/V and U/V settings (Unit)	59G sustained O/V protection at 120% of rated voltage with inverse time characteristics, and instantaneous protection at 140%	PI Sheets
D.1 General Protective Relay Requirements		
1. Relay Information	See Generating Station P&C Setting Sheets for SFL	
E.1 Operations Control and Telecommunications Facilities		
E.1.1 Remote Control Facility and Control Center		
Remote Control Facility	RTU 121 / RTU 122	Communication Block Diagram
Control Center	LMC / SCC	Communication Block Diagram

2/02/2005

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Generating Plant Agreement

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ACCEPTED:_____

ATTACHMENT 3 Planned Modifications

For the purposes of Section 2.4, an Interconnection Request is not required for the following proposed Modifications:

Planned Generator Upgrades

as of 1 February 2005

Planned Unit Upgrades:

Plant unit	MVA	MW	Incremental MW
GMS G1	321	305	44
GMS G2	321	305	44
GMS G3	321	305	44
GMS G4	321	305	44
GMS G6	321	305	30
GMS G7	321	305	30
GMS G8	321	305	30
ASH G1	35	33	6

Note: Unit ratings are approximate

Attachment 4

Procedures for Interconnection of Modifications to Generating Plants

1. Preamble

This Attachment contains the procedures that BC Hydro, as an Interconnection Customer, will use when an Interconnection Request is submitted pursuant to Section 2.4 of this Tariff Supplement 79.

2. Interconnection Procedures

- (a) Sections 1 through 4, 6 through 10, and 12 of the Standard Generator Interconnection Procedures ("SGIP") apply to processing an Interconnection Request submitted by BC Hydro pursuant to Section 2.4 of Tariff Supplement 79, with the exception that no deposits are required to be submitted as referred to in the SGIP.
- (b) Section 11 of the SGIP applies to an Interconnection Request submitted by BC Hydro pursuant to Section 2.4 of this Tariff Supplement 79, except that all references in the SGIP to "Standard Generator Interconnection Agreement" and "SGIA" will be replaced with "Terms and Conditions for Modifications" or "TCM" in accordance with following Section 3.

3. Terms and Conditions for Modifications

In accordance with Section 11 of the SGIP, as modified above, Transmission Provider will tender a TCM to BC Hydro, as the Interconnection Customer, in the attached form as provided in Schedule A.

ACCEPTED:_____

Schedule A

TERMS AND CONDITIONS FOR MODIFICATIONS

WHEREAS:

- A. Pursuant to Section 2.4 of Tariff Supplement 79, if BC Hydro, as an Interconnection Customer, proposes a Modification which will change the Point of Interconnection or increase the generating capacity of a Generating Plant or which may reasonably be expected to affect the stability or reliability of the Transmission System, an Interconnection Request will be submitted in relation to the Modification;
- B. It has been determined that an Interconnection Request is required for <*> Generating Facility, and an Interconnection Request for the proposed Modification has been submitted to the Transmission Provider; and
- C. The following terms and conditions will apply with respect to the Modification and these terms and conditions will be deemed to be the Standard Generator Interconnection Agreement ("SGIA") for this Interconnection Request.

Article 1. Definitions

- **1.1** "BC Hydro's Interconnection Facilities" means all facilities and equipment that are located between the Generating Facility and the Point of Interconnection, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Transmission System. BC Hydro's Interconnection Facilities are sole use facilities.
- **1.2 "Combined Study Agreement"** means the Combined Study Agreement dated **<*>** in respect of the Generating Facility.
- **1.3** "Commercial Operation" means the status of a Generating Facility that has completed Trial Operation, and for which BC Hydro, as the Interconnection Customer, has issued a Declaration of Compatibility-Generator (Operating) or such other document(s) of similar effect as may be substituted therefore, and for which BC Hydro, as the Interconnection Customer, has completed a Commissioning Notice to Operate.
- **1.4 "Commercial Operation Date"** of a unit means the date on which the Generating Facility commences Commercial Operation as confirmed by BC Hydro, as the Interconnection Customer, pursuant to Appendix D to these Terms and Conditions.

ACCEPTED:_____

- **1.5 "Commissioning Interconnection Service"** means the service provided by the Transmission Provider associated with interconnecting the Generating Facility to the Transmission System and enabling it to receive electric energy and capacity from the Generating Facility at the Point of Interconnection for Trial Operation of the Generating Facility prior to Commercial Operation, pursuant to the terms of these Terms and Conditions and, if applicable, the Tariff.
- **1.6** "Generating Facility" means the Modification to the Generating Plant, , as described in the Interconnection Feasibility Study, the Interconnection Facilities Study and Appendix C, but does not include BC Hydro's Interconnection Facilities.
- **1.7 "Interconnection Facilities Study**" means the Interconnection Facilities Study dated <*> in respect of the Generating Facility.
- **1.8 "Interconnection Request"** means the request, in the form of Appendix 1 to the Standard Generator Interconnection Procedures in respect of the Generating Facility.
- **1.9 "Modification"** means a modification, addition, repair, replacement or change in operation of or to all or a portion of the BC Hydro Generation System.
- **1.10** "Network Resource" has the meaning provided in the Tariff.
- **1.11** Network Upgrades" mean the additions, modifications, and upgrades to the Transmission System required at or beyond the Point of Interconnection to accommodate the interconnection of the Generating Facility to the Transmission System.
- **1.12** "**Point of Interconnection**" means the point where the Generating Plant that is the subject of the Modification connects to the Transmission System as set out in Appendix 1 to Tariff Supplement 79.

Article 2. Effective Date and Term

2.1 Effective Date. These Terms and Conditions will be deemed effective upon being confirmed in writing by BC Hydro, as the Interconnection Customer, subject to acceptance by the Commission (if applicable) or if filed unexecuted, upon the date

ACCEPTED:_____

specified by the Commission. Transmission Provider will promptly file these Terms and Conditions in accordance with Article 3.1, if required.

2.2 Term and Termination. These Terms and Conditions will apply until the Commercial Operation Date, provided that these Terms and Conditions may be terminated by BC Hydro, as the Interconnection Customer, after giving the Transmission Provider ninety (90) calendar days advance written notice. If the Generating Facility fails to achieve Commercial Operation within three (3) years of the target date for Commercial Operation set out in Appendix B these Terms and Conditions will be terminated by the Transmission Provider, unless an extension of time is approved by the Commission.

Article 3. Regulatory Filings

3.1 Filing. Transmission Provider will file these Terms and Conditions (and any amendments hereto) with the appropriate Governmental Authority, if required.

Article 4. Scope Of Service

4.1 Commissioning Interconnection Service.

- **4.1.1 The Product**. Transmission Provider must conduct the necessary studies and construct the Network Upgrades needed to integrate the Generating Facility in the same manner as all Network Resources. Transmission Provider will construct the facilities identified as Network Upgrades in Appendix A to this Agreement.
- **4.1.2 Transmission Delivery Service Implications**. Commissioning Interconnection Service allows the Generating Facility to be studied as a Network Resource on the assumption that the Generating Facility will be designated under the Tariff as a Network Resource on the Transmission System, up to the Generating Facility's full output, on the same basis as existing Network Resources interconnected to the Transmission System, and that such a designation will occur. Commissioning Interconnection Service does not convey a reservation of transmission service.

To the extent BC Hydro, as an Interconnection Customer, does designate the Generating Facility as a Network Resource, it must do so pursuant to the Tariff.

ACCEPTED:_____

Once BC Hydro, as the Interconnection Customer, satisfies the requirements for obtaining Commissioning Interconnection Service, any future transmission service request for delivery from the Generating Facility within the Transmission System of any amount of capacity and/or energy, up to the amount initially studied, will not require that any additional studies be performed or that any further upgrades associated with such Generating Facility be undertaken, regardless of whether or not such Generating Facility is ever designated by BC Hydro, as the Interconnection Customer, as a Network Resource. However, the reduction or elimination of congestion or redispatch costs may require additional studies and the construction of additional upgrades.

To the extent BC Hydro, as an Interconnection Customer, enters into an arrangement for long term transmission service for deliveries from the Generating Facility outside the Transmission System, such request may require additional studies and upgrades in order for Transmission Provider to grant such request.

- **4.2 Provision of Service**. Transmission Provider will provide Commissioning Interconnection Service for the Generating Facility at the Point of Interconnection.
- **4.3 Performance Standards**. BC Hydro will perform all of its obligations under this Agreement in accordance with applicable laws and regulations, Applicable Reliability Standards, and Good Utility Practice.
- **4.4 No Transmission Service**. These Terms and Conditions do not constitute a request for, nor the provision of, any transmission service under the Tariff, and does not convey any right to deliver electricity to any specific customer or Point of Delivery.
- **4.5 Purpose of BC Hydro's Interconnection Facilities**. Except as may be required by applicable laws and regulations, or as otherwise determined by BC Hydro, BC Hydro's Interconnection Facilities shall be constructed for the sole purpose of interconnecting the Generating Facility to the Transmission System and shall be used for no other purpose.

Article 5. Interconnection Facilities Engineering, Procurements and Construction

- **5.1 Construction Timing.** The In-Service Date, Initial Synchronization Date and target Commercial Operation Date will be set forth in Appendix B, Milestones.
- **5.2 Equipment Procurement**. Transmission Provider will commence design of Network Upgrades and procure necessary equipment as soon as practicable after

ACCEPTED:_____

completion of the Interconnection Facilities Study pursuant to the Combined Study Agreement.

- **5.3 Construction Commencement**. Transmission Provider will commence construction of Network Upgrades as soon as practicable after the following additional conditions are satisfied:
- **5.3.1** Approval of the appropriate Governmental Authority has been obtained for any facilities requiring regulatory approval; and
- **5.3.2** Necessary real property rights and rights-of-way have been obtained, to the extent required for the construction of a discrete aspect of Network Upgrades.
- **5.4 Limited Operation**. If Network Upgrades are not reasonably expected to be completed prior to the Commercial Operation Date of the Generating Facility, Transmission Provider may perform operating studies on a timely basis to determine the extent to which the Generating Facility and BC Hydro's Interconnection Facilities may operate prior to the completion of Network Upgrades consistent with applicable laws and regulations, Applicable Reliability Standards, Good Utility Practice, and these Terms and Conditions. BC Hydro may operate the Generating Facility and BC Hydro's Interconnection Facilities in accordance with the results of such studies.
- **5.5 BC Hydro's Interconnection Facilities ("BCHIF")**. BC Hydro will, at its expense, design, procure, construct, own and install the BCHIF, as set forth in Appendix A, Interconnection Facilities and Network Upgrades. The BCHIF will be designed and constructed in accordance with Good Utility Practice, to ensure that the BCHIF are compatible with the technical specifications (including the Technical Interconnection Requirements), operational control, and safety requirements of BC Hydro.
- **5.6 Suspension.** BC Hydro, as the Interconnection Customer, reserves the right, upon written notice to the Transmission Provider, to suspend at any time all work by the Transmission Provider associated with the construction and installation of Network Upgrades required under these Terms and Conditions with the condition that the Transmission System will be left in a safe and reliable condition in accordance with Good Utility Practice and BC Hydro's safety and reliability criteria. In the event that BC Hydro, as the Interconnection Customer, suspends work by the Transmission Provider required under these Terms and Conditions pursuant to this Article 5.6, and has not requested the Transmission Provider to recommence the work required under these Terms and Conditions on or before the expiration of

ACCEPTED:_____

three (3) years following commencement of such suspension, these Terms and Conditions will be deemed terminated. The three-year period will begin on the date the suspension is requested, or the date of the written notice to the Transmission Provider, if no effective date is specified.

Article 6. Start-Up and Synchronization

- **6.1 Start-Up and Synchronization**. BC Hydro, as the Interconnection Customer, is responsible for the proper synchronization of the Generating Facility to the Transmission System.
- **6.2 Commercial Operation**. BC Hydro will amend, no later than the Commercial Operation Date, Attachments 1 and 2 to Tariff Supplement 79 to reflect the updated information required for these Attachments.

These Terms and Conditions are confirmed by BC Hydro, as the Interconnection Customer.

Project Manager

Date

List of Appendices:

ACCEPTED:_____

- Appendix A Interconnection Facilities and Network Upgrades
- Appendix B Milestones
- Appendix C Interconnection Details
- Appendix D Commercial Operation Date.

ACCEPTED:_____

Appendix A

Interconnection Facilities and Network Upgrades

- 1. BC Hydro's Interconnection Facilities:
 - (a) [insert BC Hydro's Interconnection Facilities]:
- 2. Network Upgrades:
 - (a) [insert Stand Alone Network Upgrades]:
 - (b) [insert Other Network Upgrades]:

Appendix B

Milestones

Appendix C

Interconnection Details

Appendix D

Commercial Operation Date

[Date]

Attention:

Re: _____ Generating Facility

On **[Date]** BC Hydro has completed Trial Operation of Unit No. ____. This letter confirms that BC Hydro commenced Commercial Operation of Unit No. ____ at the Generating Facility, effective as of **[Date plus one day]**.

[Signature]

[BC Hydro Representative]

OATT Amendments

BChydro

Summary of Changes to Tariff Supplement No. 79

Summary of Changes to Tariff Supplement No. 79 (previously Tariff Supplement 2)					
Original Article				New Article	
Article 1					
1.1		•			
1.2.			•		
1.3			•		
1.4		•		1.2	
Article 2					
2.1		٠			
2.2		•			
2.3		•			
2.4			•		
2.5			•		
2.6		•		2.4	
2.7			•		
Article 3			•		
Article 4				Article 3	
4.1		•		3.1	
4.2			•		
4.3			•		
4.4			•		
Article 5				Article4	
5.1		•		4.1	
5.2			•		
5.3			•		
Article 6				Article 5	
6.1		•		5.1	
6.2		•		5.2	
6.3			•		
6.4			•		
6.5		•		5.3	
6.6			•		
6.7		•		5.4	
6.8			•		
Articles 7 to 28			•		
Attachments					
1(a)	•				
1(b)	•				
2	•				
3 to 7			•		
8	•			3	
9		•		4	

Summary of Changes to Tariff Supplement No. 79 (previously Tariff Supplement 2)					
	Unchanged			New Article	
Attachment 9				Attachment 4	
Article 1					
1.1		•			
1.2 to 1.3			•		
Aritcle 2					
2.1		٠			
2.2		•			
2.3 to 2.5			•		
Article 3					
3.1		•			
Article 4					
4.1		•			
4.2		•			
4.3		•			
4.4		•			
4.5		•			
Article 5					
5.1		•			
5.2			٠		
5.3		٠		5.2	
5.4		•		5.3	
5.5			•		
5.6			•		
5.7		•		5.4	
5.8		•		5.5	
5.9 to 5.12			•		
5.13		•		5.6	
Article 6			•		
Article 7		ļ		Article 6	
7.1				6.1	
7.1		•		6.1	
1.Z		•		0.2	

OATT Amendments

BChydro

Tariff Supplement No. 80

Clean

Network Economy Service

1. In this Tariff Supplement:

"**Burrard Heat Rate**" means the heat rate used by British Columbia Hydro and Power Authority (BC Hydro) in making economic decisions about whether to run Burrard Thermal Generating Station.

"Sumas 2 Gas Index" means the "Midpoint Price" listed in *Gas Daily* for "Northwest, Canadian Border (Sumas)".

"Threshold Purchase Price" means the Threshold Purchase Price, as defined, and as determined from time to time, in the Transfer Pricing Agreement for Electricity and Gas between BC Hydro and Powerex Corp, dated April 1, 2003.

"Network Economy Service" is as defined in section 1 of Attachment Q-2.

- 2. For the purposes of section 2 of Attachment Q-2 to the Tariff:
 - (a) During the period from March 1 to October 31, the Trigger Price is the Threshold Purchase Price;
 - (b) During the period from November 1 to February 28 or February 29, as applicable, the Trigger Price is:
 - (i) for transactions at the BC-US intertie, the Sumas 2 Gas Index multiplied by the Burrard Heat Rate; and
 - (ii) for transactions at the BC-Alberta intertie, the Threshold Purchase Price.
 - (c) At all times, in the case of imports using Network Economy Service over the US-BC intertie, the Market Price is:
 - (i) for Hours Ending 07:00:00 to 22:00:00 (Monday to Saturday, excluding US NERC Holidays) the Mid-C Heavy Load Hour price as reported by Dow Jones, net of transmission losses, from the last day available as of 17:00:00 of each current day; and
 - (ii) for Hours Ending 01:00:00 to 06:00:00, Hour Ending 23:00:00 and Hour Ending 24:00:00, Monday to Saturday; all day Sunday; and all US NERC Holidays: the Mid-C Light Load Hour price as reported by Dow Jones, net of transmission losses, from the last day available as of 17:00:00 of each current day.

ACCEPTED:_____

- (d) At all times, in the case of imports using Network Economy Service over the AB-BC intertie, the Market Price is, for each hour, the most recently available Alberta Pool Price for each hour posted as of 17:00:00.
- 3. For the purposes of section 4 of Attachment Q-2, BC Hydro will, on a weekly basis, post the following data:
 - (a) the date and time of any changes to the Threshold Purchase Price which BC Hydro communicates to Powerex; and
 - (b) the current Burrard Heat Rate.
- 4. The Threshold Purchase Price is treated as confidential by BC Hydro. BC Hydro will prepare reports for each quarter of the calendar year, and post the reports on its website and file them with the Commission by the end of the following quarter. The quarterly reports will set out the following information:
 - (a) The Threshold Purchase Price, and Burrard Heat Rate at the start of the quarter; each change in the Threshold Purchase Price and Burrard Heat Rate during the quarter; the date of each change during the quarter; and the reason for a change in the Burrard Heat Rate;
 - (b) Net domestic volumes allocated pursuant to the Transfer Pricing Agreement for each month of the quarter;
 - (c) Burrard Thermal Generating Station volumes for each month in the quarter;
 - (d) Monthly system peaks during the quarter for the integrated domestic system, and estimates for the Lower Mainland Vancouver Island;
 - (e) A written attestation by an officer of BC Hydro to the veracity of the information: i) contained in the reports pursuant to sections 4(a) to (d), above, and ii) posted pursuant to section 3(a) above.

ACCEPTED:_____

OATT Amendments

BChydro

Tariff Supplement No. 80

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Network Economy Service

1. In this Tariff Supplement:

"**Burrard Heat Rate**" means the heat rate used by British Columbia Hydro and Power Authority (BC Hydro) in making economic decisions about whether to run Burrard Thermal Generating Station.

"Sumas 2 Gas Index" means the "Midpoint Price" listed in *Gas Daily* for "Northwest, Canadian Border (Sumas)".

"Threshold Purchase Price" means the Threshold Purchase Price, as defined, and as determined from time to time, in the Transfer Pricing Agreement for Electricity and Gas between BC Hydro and Powerex Corp, dated April 1, 2003.

"Network Economy Service" is as defined in section 1 of Attachment Q-2.

- 2. For the purposes of section 2 of Attachment Q-2 to the Tariff:
 - (a) During the period from March 1 to October 31, the Trigger Price is the Threshold Purchase Price;
 - (b) During the period from November 1 to February 28 or February 29, as applicable, the Trigger Price is:
 - (i) for transactions at the BC-US intertie, the Sumas 2 Gas Index multiplied by the Burrard Heat Rate; and
 - (ii) for transactions at the BC-Alberta intertie, the Threshold Purchase Price.
 - (c) At all times, in the case of imports using Network Economy Service over the US-BC intertie, the Market Price is:
 - (i) for Hours Ending 07:00:00 to 22:00:00 (Monday to Saturday, excluding US NERC Holidays) the Mid-C Heavy Load Hour price as reported by Dow Jones, net of transmission losses, from the last day available as of 17:00:00 of each current day; and
 - (ii) for Hours Ending 01:00:00 to 06:00:00, Hour Ending 23:00:00 and Hour Ending 24:00:00, Monday to Saturday; all day Sunday; and all US NERC Holidays: the Mid-C Light Load Hour price as reported by Dow Jones, net of transmission losses, from the last day available as of 17:00:00 of each current day.

ACCEPTED:_____

- (d) At all times, in the case of imports using Network Economy Service over the AB-BC intertie, the Market Price is, for each hour, the most recently available Alberta Pool Price for each hour posted as of 17:00:00.
- 3. For the purposes of section 4 of Attachment Q<u>-2</u>, BC Hydro must advise the Transmission Provider of will, on a weekly basis, post the following data:
 - (a) the current Threshold Purchase Price and Burrard Heat Rate on the first business day after Attachment Q and this Tariff Supplement are made effective by order of the Commission;
 - (ba) the date and time of any changes to the Threshold Purchase Price, at the same time as which BC Hydro communicates the new Threshold Purchase Price to Powerex; and
 - (cb) any changes to the the current Burrard Heat Rate, on the date the changes occur.

The Transmission Provider must keep the Threshold Purchase Price provided is treated as confidential by BC Hydro-confidential.

- 4. BC Hydro will prepare reports for each quarter of the calendar year, and post the reports on its website and file them with the Commission and the Transmission Provider by the end of the following quarter. The quarterly reports will set out the following information:
 - (a) The Threshold Purchase Price, and Burrard Heat Rate at the start of the quarter; each change in the Threshold Purchase Price and Burrard Heat Rate during the quarter; the date of each change during the quarter; and the reason for a change in the Burrard Heat Rate;
 - (b) Net domestic volumes allocated pursuant to the Transfer Pricing Agreement for each month of the quarter;
 - (c) Burrard Thermal Generating Station volumes for each month in the quarter;
 - (d) Monthly system peaks during the quarter for the integrated domestic system, and estimates for the Lower Mainland Vancouver Island;
 - (e) A written attestation by an officer of BC Hydro to the veracity of the information: i) provided to the Transmission Providercontained in the reports pursuant to sections 4(a) to (d)-, above, and ii) that information provided to the Transmission Provider and the Commissionposted pursuant to section 3(ba) above was provided to the Transmission Provider no later than it was provided to Powerex Corp.

ACCEPTED:_____

OATT Amendments

BChydro

Attachment 5

Correspondence

BC Hydro OATT Amendments - Attachment 5



SIXTH FLOOR, 900 HOWE STREET, BOX 250 VANCOUVER, B.C. CANADA V6Z 2N3 TELEPHONE: (604) 660-4700 BC TOLL FREE; 1-800-663-1385 FACSIMILE: (604) 660-1102

Log No. 23367, 24063

February 21, 2008

ERICA M. HAMILTON COMMISSION SECRETARY Commission, Secretary@bcuc.com web site: http://www.bcuc.com

VIA E-MAIL marcel.reghelini@bctc.com bctc.regulatory@bctc.com

Mr. Marcel Reghelini Director, Regulatory Affairs British Columbia Transmission Corporation Suite 1100, Four Bentall Centre 1055 Dunsmuir Street PO Box 49260 Vancouver, BC V7X 1V5

Dear Mr. Reghelini:

Re: British Columbia Transmission Corporation ("BCTC") Transmission System Capital Plan F2008 to F2017 - Directive No. 39 Commission Decision dated June 15, 2007 – Order No. G-69-07

The Commission hereby acknowledges receipt of the submission from British Columbia Hydro and Power Authority ("BC Hydro") dated February 15, 2007 [2008], which is a response to the Commission's request for comments on the submission of BCTC dated December 21, 2007 with respect to Directive No. 39 included in Order No. G-69-07.

Directive No. 39 states: "The Commission Panel directs BCTC to file a report on or before December 1, 2007 that identifies congested paths that might be economically resolved by generation re-dispatch, and then assesses opportunities for resolving congestion by re-dispatching generation".

BCTC expresses its view that the assessment of the short-term potential for re-dispatch is complex and any study on economic opportunity for short-term re-dispatch would be highly questionable. Accordingly, re-dispatch for short-term opportunities was not pursued further as it became obvious that the opportunity at best would be very small.

BC Hydro agrees with BCTC's submission.

With regard to long-term re-dispatch opportunities BCTC submits that in 2006 it approached BC Hydro with respect to a customer request for a long-term firm point-to-point ("PTP") sale to explore the possibility of creating ATC for this sale by re-dispatching generation according to the OATT. In response, BC Hydro advised BCTC that it could not identify any surplus generation which could be used for long-term re-dispatch. In its February 15, 2008 submission BC Hydro confirms the lack of surplus generation in 2006 and states that "that continues to be the case".

BC Hydro submits that long-term re-dispatch opportunities could potentially arise in the future and that BCTC's OATT provides a process for dealing with such opportunities that involves both the transmission provider and the customer. BC Hydro states that it is content to explore such opportunities in the context of the OATT.

Page 1 of 8

2

In summary, BC Hydro believes that BCTC should no longer be required to comply with Directive No. 39 and that further action should not be required for the above reasons.

The Commission accepts the submissions of BCTC and BC Hydro and relieves BCTC from its obligation to comply with Directive No. 39.

Yours truly,

Frica M. Hamilton

cms

BChydro 🛱

Joanna Sofield Chief Regulatory Officer Phone: (604) 623-4046 Fax: (604) 623-4407 bchydroregulatorygroup@bchydro.com

February 15, 2007

Ms. Erica M. Hamilton Commission Secretary British Columbia Utilities Commission Sixth Floor – 900 Howe Street Vancouver, BC V6Z 2N3

Dear Ms. Hamilton:

RE: Project No. 3698450 British Columbia Utilities Commission (BCUC) British Columbia Hydro and Power Authority (BC Hydro) British Columbia Transmission Corporation (BCTC) Transmission System Capital Plan F2008 to F2017 – BCTC Response to Directive No.39 dated December 31, 2007

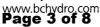
BC Hydro writes to respond to the BCUC's January 10, 2008 request for comments on the December 21, 2007 submission of BCTC with respect to Directive No. 39 of the BCUC's decision dated June 15, 2007 (Order No. G-69-07). The directive requires BCTC to file a report that first identifies congested paths, if any, that might be economically resolved by generation re-dispatch, and then assesses opportunities for resolving congestion by re-dispatching generation.

BC Hydro believes that BCTC should no longer be required to comply with Directive No. 39 and that no further action should be required for the following reasons.

BCTC differentiates between short-term and long-term congestion opportunities in its submission, and BC Hydro agrees this is a helpful distinction.

BC Hydro also agrees with BCTC's submissions that the assessment of the short-term potential for re-dispatch is complex and any study on economic opportunity for short-term re-dispatch would be highly questionable. Short-term re-dispatch would generally involve BC Hydro dispatching its generation resources in a less than optimal manner in order to create additional available transmission capacity for short-term point-to-point (PTP) sales at a maximum rate of \$0.126 per kW of reserved capacity per day. BC Hydro expects that its cost of re-dispatching generation resources would rarely justify such short term opportunities on an economic basis. Potential impacts to reliability would also have to be considered. BC Hydro agrees with BCTC's submission that short term opportunities at best would be very small.

Identification of long-term re-dispatch opportunities is provided for under BCTC's open access transmission tariff (OATT). Sections 19.3 and 32.3 of the OATT provide that, when undertaking a system impact study for a long-term PTP or network integration transmission service customer, BCTC "shall identify any system constraints and re-dispatch options,



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additional Direct Assignment Facilities or Network Upgrades required to provide the requested service." Thus, the OATT provides a process for BCTC to identify any congested paths and re-dispatch options to provide the service requested by its customer.

In BC Hydro's view, BCTC is in the best position to identify and forecast re-dispatch opportunities and the transmission customer is in the best position to evaluate the potential costs and benefits of such opportunities. An owner of generation resources is able to evaluate a proposed re-dispatch option, either for itself as a transmission customer or for BCTC as a provider of energy and capacity services, against various considerations, including reliability criteria, non-power constraints like *Fisheries Act* and water licence requirements, fuel costs, and market opportunities. Pursuant to the OATT, the transmission customer evaluates the opportunities and costs identified, and decides whether to commit to the alternative dispatch option on a long-term basis.

As noted in BCTC's submission, BC Hydro could not identify any surplus generation which could be used for long-term re-dispatch in 2006. That continues to be the case. Thus, in BC Hydro's view BCTC should no longer be required to comply with Directive No. 39 for the reasons outlined above.

In BC Hydro's view long-term re-dispatch opportunities could potentially arise in the future and there is no need to rule them out. BCTC's OATT provides a process for dealing with such opportunities that involves both the transmission provider and the customer. BC Hydro is content to explore such opportunities in the context of the OATT.

For further information please contact Lyle McClelland at 604-623-4306.

Yours sincerely,

Joanna Sofield Chief Regulatory Officer

c. F2008-F2017 BCTC TSCP Intervenors



Building Connections

Marcel Reghelini Director, Regulatory Affairs Phone: 604 699-7331 Fax: 604 699-7229 E-mail: <u>marcel.reghelini@bctc.com</u>

December 21, 2007

Ms. Erica M. Hamilton Commission Secretary British Columbia Utilities Commission Sixth Floor, 900 Howe Street Box 250 Vancouver, BC V6Z 2N3

Dear Ms. Hamilton:

RE: British Columbia Transmission Corporation ("BCTC") Transmission System Capital Plan F2008 to F2017 ~ Project No. 3698450 Commission Decision June 15, 2007, Order G-69-07, Directive #39

This report is in response to Directive 39 from the Commission's June 15, 2007 Capital Plan Decision (Order G-69-07).

Directive 39 states, "The Commission panel directs BCTC to file a report on or before December 1, 2007 that identifies congested paths that might be economically resolved by generation re-dispatch, and then assesses opportunities for resolving congestion by re-dispatching generation. This report may form part of the report related to Policy Action 12 and Policy Action 13."

BCTC understands the issue the Commission is attempting to address is to define the amount of economic opportunity which might be captured by releasing capacity on a particular path through generation re-dispatch. In this context, congestion is defined by the amount of customer requests (both firm and non-firm service) which can be accommodated on a long-term or short-term basis. In this context, the system is

Suite 1100, Bentall Centre 1055 Dunsmuir Street PO Box 49260 Vancouver, BC V7X 1V5 Telephone: 604 669 7200 Facsimile: 604 699 7332 www. bctc.com considered congested when a request exceeds the ATC. BCTC also understands that this analysis should be on a prospective basis.

For the following discussion it is necessary to differentiate between short-term congestion opportunities and long-term opportunities. Short-term opportunities can be as short as a day or hour ahead and can last for several days and be for firm or non-firm service. Short-term opportunities occur from time to time as created by short-term market conditions. BCTC considers that long-term opportunities would be for a year or more in duration and for firm transmission service. Long-term opportunities are identified through a System Impact Study in response to long-term requests. This distinction is necessary because the OATT only requires BCTC to identify re-dispatch options for long-term firm point to point or NITS requests (sections 19.3 and 32.3). In addition, forecasting generation resources available for re-dispatch for long-term opportunities is much more difficult and has more uncertainties than for short-term opportunities.

It is also important to understand that BCTC must work within the contractual framework BCTC has with BC Hydro under the Master Agreement. That is, Section 5.4 of the Master Agreement specifies that BCTC may re-dispatch BC Hydro generation for system security reasons only. Section 5.4(e) specifically prohibits BCTC re-dispatching generation for economic reasons, including increasing ATC.

The report suggested by the Commission essentially requires two analyses; the first is the identification and forecast of opportunities, the second is the evaluation of the economics of the opportunity. These analyses are more suitable for short-term opportunities. The second part of this analysis can only be performed with BC Hydro's input as they must identify the generation costs and market costs involved by redispatch. BC Hydro must also identify the amount of generation available for redispatch.



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The assessment of short-term potential is complex. The analysis would have to identify periods of congestion where there may be an opportunity for additional PTP sales and requires both knowledge of the capacity available on the system, the amount which could be made available by re-dispatch, and the amount of capacity which might be demanded by the market. BCTC can identify the historical demand (customer requests) for PTP sales and the amount of ATC available on the system and through this make an estimation of the amount of opportunity which might be captured by redispatch. However, a forecast of this analysis will have a number of uncertainties associated with it. In the first instance, any projection of future congestion would be highly problematic as the demand for service is dependant on power markets at any given time. In a general sense one could assume that these markets are probably occurring during the US peak periods but the amount of opportunity depends on what generation is available to serve that market. The path in BC where opportunity for redispatch exists is on the Alberta to US path and could be impacted by a number of internal system paths including: the ILM path; the 5L91/96/98 path; and the BC-Alberta intertie. These uncertainties and the uncertainties related to price would make the results of any study on economic opportunity highly questionable.

To create additional ATC for long-term firm opportunities by re-dispatch would require BC Hydro to re-dispatch generation sources to release congestion on the ILM path and 5L91/96/98 path as they occur. In practical terms, this would mean backing off generation in the Peace or Columbia regions in favour of generation located in the Lower Mainland.

In 2006, BCTC approached BC Hydro with respect to a customer request for a longterm firm point to point sale and to explore the possibility of creating ATC for this sale by re-dispatching generation according to the OATT. However BC Hydro advised BCTC that it could not identify any surplus generation which could be used for longterm re-dispatch. In addition BC Hydro identified that although short-term opportunities may be available they would be extremely difficult to evaluate and would in all/

Suite 1100, Bentall Centre 1055 Dunsmuir Street PO Box 49260 Vancouver, BC V7X 1V5 Telephone: 604 669 7200 Facsimile: 604 699 7332 www.bctc.com probability involve a lost opportunity cost or a high marginal cost for fuel. As a result, re-dispatch for long term opportunities were not available and re-dispatch for short term opportunities was not pursued further as it became obvious that the opportunity at best would be very small.

For the above reasons, BCTC respectfully submits that if the Commission wishes to pursue this analysis further BC Hydro's assessment of the practical application of this concept should be sought.

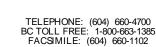
Sincerely yours,

Marcel Reghelini Director, Regulatory Affairs **OATT Amendments**

BChydro

Attachment 6

Draft Order





SIXTH FLOOR, 900 HOWE STREET, BOX 250 VANCOUVER, B.C. V6Z 2N3 CANADA web site: http://www.bcuc.com

IN THE MATTER OF the Utilities Commission Act, R.S.B.C. 1996, Chapter 473

and

An Application by British Columbia Hydro and Power Authority (BC Hydro)_ (Application to Amend the Open Access Transmission Tariff)

BEFORE:

__, Commissioner

_, 2010

ORDER

WHEREAS:

- A. BC Hydro implemented a Wholesale Transmission Services (WTS) Tariff in 1997 pursuant to BCUC Order Nos. G-31-97 and G-43-98. The WTS Tariff was based on the *pro forma* open access transmission tariff (OATT) established by the U.S. Federal Energy Regulatory Commission (FERC) for utilities under its jurisdiction by its landmark Order No. 888 dated April 24, 1996; and
- B. Pursuant to the *Transmission Corporation Act*, S.B.C. 2003 and certain agreements between BC Hydro and British Columbia Transmission Corporation (BCTC), responsibility for offering transmission services shifted to BCTC in 2003, which subsequently obtained BCUC approval of its own OATT effective April 1, 2005; and
- C. The BCTC OATT was most recently amended, and approved by the Commission, on September 10, 2009 to reflect the pro forma tariff established by FERC in Order No. 890; and
- D. On June 3, 2010, the Clean *Energy Act*, S.B.C. 2010, c. 16 (CEA) received Royal Assent and on July 5, 2010, sections 21 to 33 regarding the integration of BCTC and BC Hydro came into force in accordance with the commencement provisions in section 77 of the CEA. As a result of the CEA, BCTC's obligations and liabilities under the OATT, approved by the BCUC, became BC Hydro's including sole responsibility for operating, managing, planning and maintaining the BC Hydro transmission system and the OATT; and

BRITISH COLUMBIA UTILITIES COMMISSION ORDER

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NUMBER

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- E. On September 16, 2010, BC Hydro filed pursuant to Sections 59 to 61 of the *Utilities Commission Act* an Application to Amend the OATT (the Application) to reflect the integration of BC Hydro and BCTC pursuant to the CEA. The proposed changes include changes to reflect BC Hydro as the Transmission Provider; additional FERC 890 pro forma language required as a result of the Transmission Provider being an integrated utility; amendments to BCTC Tariff Supplements 1, 2, and 3; amendments to and cancellation of related Rate Schedules; and other housekeeping items; and
- F. In the Application BC Hydro also sought an order, granting BC Hydro relief from compliance with the terms of Attachment K (Transmission Planning Process) to BC Hydro's OATT until January 1, 2012. Such relief will allow BC Hydro to fully assess its capital planning process and determine how it will proceed with compliance with the CEA in conjunction with the *Utilities Commission Act* and the OATT.

NOW THEREFORE pursuant to sections 59 to 61 of the *Utilities Commission Act* the Commission orders as follows:

- 1. BC Hydro's application for amendments to the OATT (and its Attachments), Rate Schedules 00 to 10, and Tariff Supplements 78, 79 and 80 (formerly known as Tariff Supplements 1, 2 and 3) are approved and are effective immediately;
- Rate Schedules 100 to 110 (of the Transmission Provider) and Rate Schedules 3000 to 3002 (of the Transmission Owner) are cancelled;
- 3. BC Hydro Rate Schedules 3011 to 3016 and BC Hydro Tariff Supplement 69 are cancelled; and
- 4. Relief is hereby granted to BC Hydro from its obligations under Attachment K (Transmission Planning Process) of the OATT until January 1, 2012.

DATED at the City of Vancouver, in the Province of British Columbia, this day of _____ 2010.

BY ORDER