Large Generator Interconnection

BPA Transmission Business Practice

Version 10
10/1/2019
Large Generator Interconnection

Version 10

This Business Practice clarifies the processes and procedures that are necessary to comply with Attachment L of the Bonneville Power Administration’s (BPA) Open Access Transmission Tariff (OATT).

For more information, visit the BPA Transmission Business Practices page or submit questions to techforum@bpa.gov.

Table of Contents

A. Deposits .............................................................................................................................. 1
B. Interconnection Request Criteria ......................................................................................... 2
C. Submission Procedures ...................................................................................................... 3
D. Interconnection Queue Position .......................................................................................... 3
E. Queue Process ................................................................................................................... 4
F. Sale or Transfer of Generating Facility ................................................................................ 4
G. Environmental Studies ........................................................................................................ 5
H. Material Modifications ......................................................................................................... 6
I. Identification of Contingent Facilities ................................................................................... 7
J. Phased Interconnection and Provisional Interconnection Service ....................................... 7
K. Transmission Credits - Generator Large ............................................................................. 7
L. Policy References ............................................................................................................... 7

A. Deposits

1. All deposits required during the processing of an Interconnection Request must be remitted in accordance with the electronic funds transfer criteria described below:

<table>
<thead>
<tr>
<th>Electronic Funds Transfer</th>
<th>For instructions to pay the deposit by electronic transfer to BPA Transmission Services’ (BPAT), either through FedWire or Automated Clearing House (ACH), contact your Account Executive.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>When using FedWire, after “OBI=” include the words “GI Request Deposit”.</td>
</tr>
<tr>
<td></td>
<td>When using the ACH type of electronic transfer, include the same information in the “memo” field on the transfer.</td>
</tr>
<tr>
<td></td>
<td>If a bank removes information from the “OBI” or “memo” field, BPAT will not declare an Interconnection Request INVALID.</td>
</tr>
</tbody>
</table>
2. In limited circumstances, paper checks will be acceptable if a Customer demonstrates they are unable to pay electronically. Contact your Account Executive for instructions.

3. Refunds

   a. A deposit refund will be calculated following completion of the studies under the Large Generator Interconnection Procedures (LGIP) or Withdrawal of the Interconnection request, whichever occurs earliest.

   b. The entity, whose name is on the Interconnection Request, Appendix 1, and W9e, Request for Taxpayer Identification Number and Certification, shall receive the deposit refund.

   c. Prior to the commencement of a study, reasonable costs incurred by BPA in processing, validating and scoping the Interconnection Request shall be deducted from the deposit refund.

B. Interconnection Request Criteria

1. To initiate an Interconnection Request, Interconnection Customer must provide BPAT all of the following:

   a. A completed application in the form of Appendix 1 of the LGIP, with the paragraph index preserved and signed by a person holding signatory contractual authority.

   b. An Initial Deposit of $10,000 transmitted within one Business Day of the submission of the Interconnection Request as specified above in the Deposits section.

   c. Site Control documentation or, in lieu of demonstrating Site Control the Interconnection Customer may submit a separate Site Control deposit of an additional $10,000 as specified above in Large Generator Interconnection Deposits. This additional deposit (less costs incurred) is refundable only if Site Control is demonstrated within 10 Business Days after the Interconnection Request is received by BPAT.

   d. W9e form, Request for Taxpayer Identification Number and Certification, of the Interconnection Customer. This requirement may be waived at the discretion of BPAT if the Interconnection Customer has submitted previous Interconnection Requests to BPAT. The Interconnection Customer should consult with the Account Executive prior to submitting the Interconnection Request for clarification.

   e. Certificate of Incorporation of the Interconnection Customer if not previously submitted to BPAT.

      i. If an Interconnection Customer is a subsidiary or partner of another entity, or if another entity controls the Interconnection Customer, a letter from the parent or controlling entity’s letterhead is required and must include

---

1 An increase in the generating capacity (i.e. nameplate) of a project requires a new Request, even if the Interconnection Service MW remains the same.
the name(s) and position(s) of those holding contractual signatory authority on behalf of the Interconnection Customer and the Certificate(s) of Incorporation for each entity.

ii. The Interconnection Customer must provide BPAT with written notification of a name change to the company within 15 Business Days from the effective date of the name change and include a cover letter with the company’s official correspondence letterhead stating the new name of the company.

C. Submission Procedures

1. To request an interconnection of a Large Generating Facility, the Interconnection Customer should submit the Interconnection Request by one of the following methods:

<table>
<thead>
<tr>
<th>Method</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overnight Delivery Service</td>
<td>Bonneville Power Administration – Attn: (Addressee) Organization Mailstop: (e.g. TSE/TPP-2; TPC/TPP-4, TPP/OPP-3) 905 NE 11th Avenue Portland, OR 97232</td>
</tr>
<tr>
<td>US Postal Service</td>
<td>Bonneville Power Administration Transmission Marketing and Sales - TSE-TPP-2, P.O. Box 61409, Vancouver, WA 98666-1409</td>
</tr>
<tr>
<td>Facsimile (fax)</td>
<td>Faxed Interconnection Requests will be accepted only at (360) 619-6940. The Interconnect Customer must include a cover page specifying the number of Interconnection Requests and the number of pages faxed. BPAT is not responsible for the failure of fax transmissions.</td>
</tr>
<tr>
<td>Email</td>
<td>To: <a href="mailto:Interconnection@bpa.gov">Interconnection@bpa.gov</a> Subject: Generator Interconnection Interconnection Requests sent to other email addresses will not be entered into the Interconnection Queue. The completed application and any additional documents must be attached to the email as Portable Document Format (PDF) files; if the files exceed 30 MB the customer service engineer must be contacted for directions on how to submit the files. PDF files should be referenced and specified by their exact names in the email.</td>
</tr>
</tbody>
</table>

D. Interconnection Queue Position

1. Queue Position of an Interconnection Request is the date and time BPAT receives a valid Interconnection Request, determined as follows for:

   a. **Overnight Delivery Service**: date and time when the request is delivered to the BPA mailroom.

   b. **Fax**: the date and time stamp on the fax.
c. **Email**: the date and time that the email is received in the Interconnection@bpa.gov inbox by BPAT.
d. **Mail**: the date and time stamp when the request is received by BPAT at the TSE-TPP-2 mailstop office.

**E. Queue Process**

1. Subject to the requirements of the LGIP, BPAT shall post the relevant information contained in the Interconnection Request on the external Interconnection Queue website.

2. Upon BPA’s receipt of the Interconnection Request, the queue status shall be shown as RECEIVED.

3. Upon receipt by BPAT of an executed study agreement and deposit the queue status will be changed to STUDY.
   a. As each study is executed and commenced, BPAT shall insert the stage being studied into the Comments section of the Interconnection Request posting.
   b. During the study process if any of the posted Interconnection Request information changes, the posting will be revised and the date of the amendment recorded in the Comments section of the queue posting.
   c. When each study report is final and has been provided to the Interconnection Customer, a redacted summary of the report will be posted to BPAT OASIS.

4. Upon execution of the Large Generator Interconnection Agreement (LGIA) the queue status shall be changed to CONFIRMED and the identity of the Interconnection Customer will be posted.

5. BPAT will change the queue status to WITHDRAWN and include the reason for withdrawing the Interconnection Request in the Comment section if the Interconnection Customer does any of the following:
   a. Withdraws the Interconnection Request;
   b. Fails to execute a required Interconnection Studies agreement;
   c. Fails to submit the required deposit;
   d. Fails to meet required timeline milestones.

6. If, at any time, the public process under the National Environmental Policy Act (NEPA) requires that the identity of the Interconnection Customer become public, BPAT may post the identity of the Interconnection Customer.

**F. Sale or Transfer of Generating Facility**

1. Sale or Transfer of a Generating Facility Identified in the Interconnection Request:
   a. In the event that the Interconnection Customer anticipates the sale or transfer of its interest in the Interconnection Request (See Section 4.3 of the LGIP, Transferability of Queue Position) BPAT requires written notice at least 30 calendar days in advance of the transaction.
b. The Interconnection Customer should contact the Transmission Account Executive to seek guidance in advance of the 30 day written notice requirement, which contact shall be non-binding and will be held in confidence, in order to establish and identify clearly what (if any) agreements, rights and obligations are to be the subject of such a sale or transfer.

2. Sale or Transfer of a Generating Facility Identified in the Executed LGIA:
   a. For the sale or transfer of a Large Generating Facility for which the Interconnection Customer has an executed LGIA, the purchaser or transferee must execute a new LGIA. The new LGIA must specify the purchaser’s or transferee’s interest in the Large Generating Facility.

G. Environmental Studies

1. Tendering the Environmental Study Agreement:
   a. In accordance with Section 3.3.5 of the LGIP, the Transmission Provider will tender to the Interconnection Customer an Environmental Study Agreement (ESA) as soon as practicable after the Scoping Meeting.

2. Executing the ESA:
   a. Within 30 days of receiving the ESA, the Interconnection Customer must execute the agreement per the terms of Section 3.3.5 of the LGIP; if the Interconnection Customer fails to execute the ESA within 30 days of receipt, then the Transmission Provider shall deem the Interconnection Request withdrawn pursuant to Section 3.7 of the LGIP.

3. Calculating the Deposits:
   a. The appropriate deposit amount for the ESA will be determined by the Transmission Provider based on the extent of the required environmental studies. The deposit for the ESA may be either:
      i. The estimated cost of all environmental evaluation and studies; or
      ii. A partial payment of the estimated costs of all environmental evaluation and studies, including engineering and design requirements, that is sufficient to cover the Transmission Provider’s preliminary review of the necessary environmental evaluation and studies.

4. Information Required for Conducting the Environmental Evaluation and Studies:
   a. BPA requires information from the Interconnection Customer to conduct the NEPA analysis including but not limited to: preliminary designs, permits, status reports, and funds. The ESA details information that is required from the Interconnection Customer to complete this analysis.

5. Timeline for NEPA Analysis:
   a. The Transmission Provider will proceed in good faith to ensure the timely completion of the environmental review for the Interconnection Request. The Transmission Provider reserves the right to revise the estimated date of completion of the environmental review as necessary, and is not obligated to issue the NEPA document for its own actions within any specific timeframe.
6. Tendering the LGIA:
   a. Completion of the record of decision or other NEPA document is a necessary condition for the tendering of an LGIA.

H. Material Modifications

1. A request to modify the operating characteristics of an Interconnection Request must be submitted to Interconnection@bpa.gov. This request must provide:
   a. A detailed description of the proposed modification and all information necessary to support Transmission Provider’s analysis of how the proposed modification:
      i. Results in equal to or better electrical performance;
      ii. Does not increase the Interconnection Customer’s requested interconnection service; and
      iii. Does not cause any reliability concerns (i.e., material impacts to the transmission system, including impacts to short circuit capability limits, steady-state thermal and voltage limits, or dynamic system stability and response).
   b. A new plant level model of the Generating Facility with a detailed description of the proposed modification, if the new model is different from that submitted for the Interconnection System Impact Study under the original Interconnection Request.
      i. Plant level models must be submitted in one of the following formats: General Electric Positive Sequence Load Flow (PSLF) Power Flow (EPC), General Electric PSLF Dynamics Data File (DYD), PowerWorld Auxiliary File (AUX).

2. Within 30 Calendar Days of receipt of the request for a modification, BPA will assess the modification request and notify the Interconnection Customer of whether the proposed modification is either:
   a. A permissible change that is determined not to be a Material Modification; or
   b. A Material Modification.

3. Within 30 Calendar Days after BPA’s determination is sent, the Interconnection Customer shall provide BPA notice, in writing, of its desire to either withdraw or proceed with the requested modification. If such notice is not received within 30 Calendar Days after BPA’s determination is sent, the proposed modification will be deemed withdrawn.

4. The following are some examples of permissible changes that BPA does not deem to be a Material Modification:
   a. A modification that is for an advancement in turbine, inverter, or plant supervisory equipment technology and it does not increase the Interconnection Customer’s interconnection Capacity (e.g., changing from a type II Wind Turbine to a type 3 Wind Turbine);
   b. The modification that changes one manufacturer to another but does not change the fuel type and the model selected meets all current industry best practices, FERC/NERC standards and guidelines; and BPA’s Technical Requirements for
Interconnection (e.g., a solar project developer could request to change to a different manufacturer after receiving bids for inverters, so long as the newly selected inverter meets all ride-through and voltage control requirements).

I. Identification of Contingent Facilities

1. Transmission Provider will identify Contingent Facilities in the System Impact Study and Facility Study reports. To identify Contingent Facilities, the Transmission Provider will:
   a. Model Network Upgrades that are required to interconnect the Large Generating Facility to the Transmission Provider’s transmission system for the selected Capacity and that are required for earlier queued interconnection projects;
   b. Model otherwise planned Network Upgrades by the Transmission Provider.

2. Contingent Facilities include those Network Upgrades where, at the time that the System Impact Study report is completed, none of the higher queued interconnection projects have executed an LGIA, or Transmission Planner and required third party (if any) Network Upgrades have not been energized. More specifically, Contingent Facilities will include those facilities where, absent the facilities, there is a negative material impact on the Interconnection Customer’s interconnection requirements or cost responsibility.

3. Transmission provider will provide, upon request of the Interconnection Customer, the estimated interconnection facility and/or network upgrade costs and estimated in-service completion time of each identified Contingent Facility when this information is readily available and not commercially sensitive.

J. Phased Interconnection and Provisional Interconnection Service

1. Phased Interconnection:
   a. If the Interconnection Customer plans to complete and achieve Commercial Operation of its Generating Facility in two or more successive phases under a single LGIA, then each phase, including all milestone dates, and cost payment tables must be documented in the Appendices of the LGIA.

2. Provisional Interconnection Service:
   a. If the Interconnection Customer plans to execute an LGIA for Provisional Interconnection Service, then the Interconnection Customer shall follow the processes for Phased Interconnection as described above.

K. Transmission Credits - Generator Large

1. Refer to BAT Transmission Credits - Generator - LGI BP for further discussion on eligibility for Transmission Credits under the LGIA.

L. Policy References

1. Tariff: Attachment L
2. Forms
   a. Assignment of Transmission Credits
   b. Standard Large Generator Interconnection Agreement (Tariff, Attachment L)
3. Related Business Practices
   a. New Customer Application Process
   b. Long-Term Firm Queue Management
   c. Redirects
4. Reference Data
   a. Reports on Study Statistics
   b. Interconnection Study Reports
   c. Study Models and Assumptions