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WN U-60

Attachment "B" to Schedule 153, Page 1

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**SCHEDULE 153**

**QUALIFYING FACILITY TRANSMISSION INTERCONNECTION SERVICE (Continued)**

**Attachment "B" – Qualifying Facility Transmission Interconnection Procedures**

**QUALIFYING FACILITIES TRANSMISSION  
INTERCONNECTION PROCEDURES (QFTIP)**

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**Section 1. Definitions**

All capitalized terms used in this attachment and appendices within have the same meanings given to them in Attachment "A" of Schedule 153 and the Company's Schedule 80, section 2, Definitions.

**Section 2. Scope and Application**

**2.1. Application of Qualifying Facility Transmission Interconnection**

**Procedures.** Sections 2 through 13 apply to processing an Interconnection Request pertaining to a Qualifying Facility for a Point of Interconnection with Company's Transmission System.

**2.2. Comparability.** Company shall receive, process and analyze all Interconnection Requests in a timely manner as set forth in this QFTIP. Company will use the same Reasonable Efforts in processing and analyzing Interconnection Requests from all Interconnection Customers, whether the generating facilities are owned by Company, its subsidiaries or Affiliates or others.

**2.3. Base Case Data.** Company shall provide base power flow, short circuit and stability databases, including all underlying assumptions, and contingency list upon request subject to confidentiality provisions in Section 13.1. Company is permitted to require that Interconnection Customer sign a confidentiality agreement before the release of commercially sensitive information or Critical Energy Infrastructure Information in the Base Case data. Such databases and lists, hereinafter referred to as Base Cases, shall include all (i) 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 applicable authority.

**2.4. No Applicability to Transmission Service.** Nothing in this QFTIP shall constitute a request for transmission service.

**2.5. EIM Requirements.** An Interconnection Customer with a Qualifying Facility of at least 5 MW shall have a continuing duty to comply with Attachment O of the Company's OATT, as applicable.

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**Section 3. Interconnection Requests**

**3.1. General**

**3.1.1 Small Qualifying Facility.**

An Interconnection Customer with a Small Qualifying Facility shall submit electronically to Company an Interconnection Request in the form of Appendix 1 to this QFTIP, send a refundable deposit of \$1,000 either via ACH or wire transfer, and provide evidence that that Interconnection Customer has certified the Qualifying Facility pursuant to 18 C.F.R. § 292.207. Company shall apply the deposit toward the cost of an Interconnection Feasibility Study.

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, Company 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.

**3.1.2 Large Qualifying Facility**

An Interconnection Customer with a Large Qualifying Facility shall submit electronically to Company an Interconnection Request in the form of Appendix 1 to this QFTIP, send a refundable deposit of \$10,000 either via ACH or wire transfer, and provide evidence that that Interconnection Customer has certified the Qualifying Facility pursuant to 18 C.F.R. § 292.207. Company shall apply the deposit toward the cost of an Interconnection Feasibility Study.

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. The combined output of all the Interconnection Customer's Qualifying Facilities shall not be greater than 80 MW in a one-mile square radius.

At Interconnection Customer's option, Company and Interconnection Customer will identify alternative Point(s) of Interconnection and configurations at the Scoping Meeting to

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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. Qualifying Facility Transmission Interconnection Service.** The Interconnection Customer's application for Interconnection Service shall be for Company's Schedule 153 Qualifying Facility Transmission Interconnection Service.

**3.2.1. Qualifying Facility Transmission Interconnection Service**

**3.2.1.1. The Product.** Company must conduct the necessary studies and construct the Network Upgrades needed to integrate the Qualifying Facility in a manner that ensures that the Qualifying Facility is Fully Deliverable at all points on the Company's Transmission System. Qualifying Facility Transmission Interconnection Service is comparable to that in which the Company integrates its own generating facilities to serve native load customers; provided, however, in certain Reliability Conditions, Schedule 153 Qualifying Facility Transmission Interconnection Service allows for the Interconnection Customer to be curtailed instead of having to build additional Network Upgrades. In other situations, except for those narrowly defined as Reliability Conditions, the Interconnection Customer may be responsible for other Network Upgrades necessary for interconnection and Company's system reliability.

**3.2.1.2. The Study.** The Interconnection Study for Schedule 153 Qualifying Facility Transmission Interconnection Service shall assure that Interconnection Customer's Qualifying Facility meets the requirements for Schedule 153 Qualifying Facility Transmission Interconnection Service and as a general matter, that such Qualifying Facility's interconnection is also studied with Company's Transmission System at peak load, under a variety of severely stressed conditions, to determine whether, with the Qualifying Facility at full output, the aggregate of generation in the local area can be delivered to the aggregate of load on Company's Transmission System, consistent with Company's reliability criteria and procedures. This approach assumes that some portion of existing Network Resources (as defined in the Company's OATT) are displaced by the output of Interconnection Customer's Qualifying Facility. Schedule 153 Qualifying Facility Transmission Interconnection Service in and of itself does not convey any right to deliver electricity to any specific customer or Point of Delivery. The Company may also study the Transmission System under non-peak load conditions. However, upon request by the Interconnection Customer, Company must explain in writing to the Interconnection Customer why the study of non-peak load conditions is required for reliability purposes.

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**3.3. Valid Interconnection Request**

**3.3.1. Initiating an Interconnection Request.** To initiate an Interconnection Request, Interconnection Customer must submit electronically all of the following: (i) a \$1,000 deposit for a Small Qualifying Facility or a \$10,000 deposit for a Large Qualifying Facility, via either ACH or wire transfer to the Company, (ii) a completed application in the form of Appendix 1, (iii) demonstration of Site Control or an ACH or wire transferred posting of an additional deposit of \$1,000 or \$10,000, respectively; and (iv) evidence that that Interconnection Customer certified the Qualifying Facility pursuant to 18 C.F.R. § 292.207. Such deposits shall be applied toward any Interconnection Studies pursuant to the Interconnection Request. If Interconnection Customer demonstrates Site Control within the cure period specified in Section 3.3.3 after submitting its Interconnection Request, the additional deposit shall be refundable; otherwise, all such deposit(s), additional and initial, become non-refundable.

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

**3.3.2. Acknowledgment of Interconnection Request.** Company 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 acknowledgment.

**3.3.3. Deficiencies in Interconnection Request.** An Interconnection Request will not be considered to be a valid request until all items in Section 3.3.1 have been received by Company. If an Interconnection Request fails to meet the requirements set forth in Section 3.3.1, Company 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 Company 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.



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**3.3.4. Scoping Meeting.** Within ten (10) Business Days after receipt of a valid Interconnection Request, Company 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 be expected to impact such interconnection options, to analyze such information and to determine the potential feasible Points of Interconnection. Company 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. Company 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 in the time allocated for the meeting. On the basis 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.

**3.4. OASIS Posting.** In addition to the Interconnection Requests that Company is required to maintain on its OASIS site under the requirements of Company's OATT, Company will maintain on its OASIS site a list of all Interconnection Requests under this Schedule 153 QFTIP. Transmission Interconnection Requests received under Company's Schedule 153 or under Company's OATT shall be assigned Queue Positions in the same queue. The list will identify, for each Interconnection Request: (i) the maximum summer and winter megawatt electrical output; (ii) the location by county and state; (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 availability of any studies related to the Interconnection Request; (vii) the date of the Interconnection Request; (viii) the type of Qualifying Facility to be constructed (Cogeneration Facility or Small Power Producer Facility and fuel type); and (ix) for Interconnection Requests that have not resulted in a completed interconnection, an explanation as to why it was not completed. Except in the case of an Affiliate, the list will not disclose the identity of Interconnection Customer until Interconnection Customer executes an interconnection agreement under Company's Schedule 153 or OATT. Before holding a Scoping Meeting with its Affiliate, Company shall post on its OASIS site an advance notice of its intent to do so. Company shall post to its OASIS site any deviations from the study timelines set forth herein. Interconnection Study reports and Optional Interconnection Study reports shall be posted to Company's OASIS site subsequent to the meeting between Interconnection Customer and Company to discuss the applicable study results. Company shall also post any known deviations in the Qualifying Facility's In-Service Date.

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**3.5. Coordination with Affected Systems.** Company will 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 QFTIP. Company will include such Affected System Operators in all meetings held with Interconnection Customer as required by this QFTIP. Interconnection Customer will cooperate with Company in all matters related to the conduct of studies and the determination of modifications to Affected Systems. A Transmission Provider which may be an Affected System shall cooperate with Company with whom interconnection has been requested 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 via an email to Company. In addition, if Interconnection Customer fails to adhere to all requirements of this QFTIP, except as provided in Section 13.5 (Disputes), Company shall deem the Interconnection Request to be withdrawn and shall provide written notice via an email to Interconnection Customer of the deemed withdrawal and an explanation of the reasons for such deemed withdrawal. Upon receipt of such written notice via an email, Interconnection Customer shall have fifteen (15) Business Days in which to either respond with information or actions that cures the deficiency or to notify Company of its intent to pursue 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. An Interconnection Customer that withdraws or is deemed to have withdrawn its Interconnection Request shall pay to Company all costs that Company prudently incurs with respect to that Interconnection Request prior to Company's receipt of notice described above.

Interconnection Customer must pay all monies due to Company before it is allowed to obtain any Interconnection Study data or results.

Company shall (i) update the OASIS Queue Position posting and (ii) refund to Interconnection Customer any portion of Interconnection Customer's deposit or study payments that exceeds the costs that Company has incurred. In the event of such withdrawal, Company, subject to the confidentiality provisions of Section 13.1, shall provide, at Interconnection Customer's request, all information that Company developed for any completed study conducted up to the date of withdrawal of the Interconnection Request.

**3.7. Identification of Contingent Facilities**

Company shall post in this section a method for identifying the Contingent Facilities to be provided to Interconnection Customer at the conclusion of the System Impact Study and included in Interconnection Customer's Schedule 153 QFTIA. The method shall be sufficiently

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transparent to determine why a specific Contingent Facility was identified and how it relates to the Interconnection Request. Company shall also 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.

Company shall take the following factors into consideration when determining if a facility shall be included as a Contingent Facility in the System Impact Study and referenced in the Interconnection Customer's QFTIA: (1) the Interconnection Customer's queue position, as only facilities that are the responsibility of prior-queued projects may be considered Contingent Facilities; (2) the Point of Interconnection of prior-queued projects as compared to the facility; (3) if prior-queued project(s) or any related required upgrades are electrically significant to the new project or surrounding area; and (4) what effect not building any prior-queued project or related upgrades will have on the Interconnection Request.

The effect of electric significance is not affected by the distance to the project. Factors that are considered in order to determine if a prior-queued project is electrically significant to an Interconnection request include: power flow (both capacity and voltage); short circuit; transient analysis, and, impacts to, or development of necessary, protection schemes for new or modified projects. In addition, if projects are projected to have a similar impact on each other and to the grid, Company will study and evaluate the impacts of the new projects or system upgrades.

Communication, protection and related control equipment associated with Network Upgrades required in connection with earlier-queued projects will not be separately identified as Contingent Facilities in the System Impact Study. Facilities only identified in an Affected Systems Study will be included if identified as a Contingent Facility by an Affected System to Company.

#### **Section 4. Queue Position**

**4.1. General.** Company 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 Company shall assign Interconnection Customer a Queue Position based on the date 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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Company may allocate the cost of the common upgrades for clustered Interconnection Requests without regard to Queue Position.

**4.2. Clustering.** At Company's option, Interconnection Requests may be studied serially or in clusters for the purpose of the Interconnection System Impact Study.

Clustering shall be implemented on the basis of Queue Position. If Company 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. The deadline for completing all Interconnection System Impact Studies for which an Interconnection System Impact Study Agreement has been executed during a Queue Cluster Window shall be in accordance with Section 7.4, for all Interconnection Requests assigned to the same Queue Cluster Window. Company may study an Interconnection Request separately to the extent warranted by Good Utility Practice based upon the electrical remoteness of the proposed Qualifying Facility.

Clustering Interconnection System Impact Studies 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 of each study.

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 Company'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.

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

**4.4. Modifications.** Interconnection Customer shall submit to Company, 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 Company 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 Company and Interconnection Customer, such acceptance not to be unreasonably withheld, Company 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

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accordance with Sections 6.4, 7.6 and 8.5 as applicable and Interconnection Customer shall retain its Queue Position.

Prior to the return of the executed Interconnection System Impact Study Agreement to Company, modifications permitted under this Section 4.4 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 Qualifying Facility technology or the Qualifying 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.

Prior to the return of the executed Interconnection Facility Study Agreement to Company, the modifications permitted under this Section shall include specifically: (a) additional 15 percent decrease of electrical output (MW), and (b) Qualifying Facility technical parameters associated with modifications to Qualifying Facility technology and transformer impedances; provided, however, the incremental costs associated with those modifications are the responsibility of the requesting Interconnection Customer.

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 Company evaluate whether such modification is a Material Modification. In response to Interconnection Customer's request, Company 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.

Upon receipt of Interconnection Customer's request for modification permitted under this Section 4.4, Company shall commence and perform any necessary additional studies as soon as practicable, but in no event shall Company 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.

Extensions of less than three (3) cumulative years in the Commercial Operation Date of the Qualifying 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 additional studies are required pursuant to Applicable Laws and Regulations and Applicable Reliability Standards.

**Section 5. Procedures for Interconnection Requests Submitted Prior to Effective Date of Qualifying Facility Transmission Interconnection Procedures**

**5.1. Queue Position for Pending Requests**

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Any Interconnection Customer requesting interconnection as a Qualifying Facility assigned a Queue Position prior to the effective date of this QFTIP shall retain that Queue Position.

If an Interconnection Study Agreement has not been executed as of the effective date of this QFTIP, then such Interconnection Study, and any subsequent Interconnection Studies, shall be processed in accordance with this QFTIP.

If an Interconnection Study Agreement has been executed prior to the effective date of this QFTIP, 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 an Interconnection Study Agreement prior to the effective date of the QFTIP, Company must offer Interconnection Customer the option of either continuing under Company's existing interconnection study process or going forward with the completion of the necessary Interconnection Studies (for which it does not have a signed Interconnection Studies Agreement) in accordance with this QFTIP.

**5.1.2. Transition Period.** To the extent necessary, Company and Interconnection Customers with an outstanding request (i.e., an Interconnection Request for which a QFTIA has not been executed as of the effective date of this QFTIP) shall transition to this QFTIP within a reasonable period of time not to exceed sixty (60) Calendar Days. The use of the term "outstanding request" herein shall mean any Interconnection Request, on the effective date of this QFTIP: (i) that has been submitted but not yet accepted by Company; (ii) where the related interconnection agreement has not yet been executed by both parties, (iii) where the relevant Interconnection Facility Study Agreements have not yet been executed, or (iv) where any of the relevant Interconnection Studies are in process but not yet completed. Any Interconnection Customer with an outstanding request as of the effective date of this QFTIP 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 Company to the extent consistent with the intent and process provided for under this QFTIP.

**Section 6. Interconnection Feasibility Study**

**6.1. Interconnection Feasibility Study Agreement.** Simultaneously with the acknowledgement of a valid Interconnection Request, Company shall provide electronically 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 Company's receipt of such designation, Company shall tender to Interconnection Customer the Interconnection Feasibility Study Agreement signed by Company,

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which includes a good faith estimate of the cost for completing the Interconnection Feasibility Study.

**6.1.1 Small Qualifying Facility** Interconnection Customer with a Small Qualifying Facility shall execute and deliver electronically to Company the Interconnection Feasibility Study Agreement and send via ACH or wire transfer a deposit of the lesser of \$1,000 or 50% of the estimated costs for the Feasibility Study no later than thirty (30) Calendar Days after its receipt.

On or before the return of the executed Interconnection Feasibility Study Agreement to Company, Interconnection Customer shall provide electronically the technical data called for in Appendix 1, Attachment A.

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 Company, 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 6.4 as applicable. For the purpose of this Section 6.1.1, if Company 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 Company agree to forgo the Interconnection Feasibility Study, Company will initiate an Interconnection System Impact Study under Section 7 of this QFTIP and apply the \$1,000 deposit towards the Interconnection System Impact Study.

**6.1.2 Large Qualifying Facility** Interconnection Customer shall execute and deliver electronically to Company the Interconnection Feasibility Study Agreement and send via ACH or wire transfer a \$10,000 deposit for the Feasibility Study no later than thirty (30) Calendar Days after its receipt.

On or before the return of the executed Interconnection Feasibility Study Agreement to Company, Interconnection Customer shall provide electronically the technical data called for in Appendix 1, Attachment A.

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 Company, 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 6.4 as applicable. For the purpose of this Section 6.1.2, if Company and Interconnection Customer cannot agree on the substituted Point of Interconnection, then Interconnection

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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 Company agree to forgo the Interconnection Feasibility Study, Company will initiate an Interconnection System Impact Study under Section 7 of this QFTIP and apply the \$10,000 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 small or large interconnection to the Transmission System.

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 QFTIA pursuant to Schedule 153; or, pursuant to the Company's OATT, have executed a Large Generator Interconnection Agreement or requested that an unexecuted Large Generator Interconnection Agreement be filed with FERC. 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.

**6.3. Interconnection Feasibility Study Procedures.** Company shall utilize existing studies to the extent practicable when it performs the study. Company shall use Reasonable Efforts to complete the Interconnection Feasibility Study no later than forty-five (45) Calendar Days after Company receives the fully executed Interconnection Feasibility Study Agreement. At the request of Interconnection Customer or at any time Company determines that it will not meet the required time frame for completing the Interconnection Feasibility Study, Company shall notify Interconnection Customer as to the schedule status of the Interconnection Feasibility Study. If Company 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, Company 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.

**6.3.1. Meeting with Company.** Within ten (10) Business Days of providing an Interconnection Feasibility Study report to Interconnection Customer, Company and Interconnection Customer shall meet to discuss the results of the Interconnection Feasibility Study.



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**6.4. 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 Company shall notify Interconnection Customer in writing. Such Re-Study shall take no longer 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.

**Section 7. Interconnection System Impact Study**

**7.1. Interconnection System Impact Study Agreement.** 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, Company shall provide electronically to Interconnection Customer an Interconnection System Impact Study Agreement in the form of Appendix 3 to this QFTIP. The Interconnection System Impact Study Agreement shall provide that Interconnection Customer shall compensate Company for the actual cost of the Interconnection System Impact Study. Within three (3) Business Days following the Interconnection Feasibility Study results meeting, Company 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 Interconnection System Impact Study Agreement.**

**7.2.1. Small Qualifying Facility .** Interconnection Customer with a Small Qualifying Facility shall execute and deliver electronically the Interconnection System Impact Study Agreement to Company no later than thirty (30) Calendar Days after its receipt along with demonstration of Site Control, and send via ACH or wire transfer a \$1,000 deposit towards the costs of the System Impact Study to the Company as specified in the Interconnection System Impact Study Agreement.

If Interconnection Customer does not provide all such technical data when it delivers the Interconnection System Impact Study Agreement, Company shall notify Interconnection Customer of the deficiency within five (5) Business Days of the receipt of the executed Interconnection System Impact 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 Interconnection System Impact 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 Company, 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 7.2.1, if Company and Interconnection Customer cannot agree on the substituted Point of

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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.

**7.2.2. Large Qualifying Facility.** Interconnection Customer with a Large Qualifying Facility shall execute and deliver electronically the Interconnection System Impact Study to Company no later than thirty (30) Calendar Days after its receipt along with demonstration of Site Control, and a deposit in the amount of \$50,000 sent via ACH or wire transfer.

If Interconnection Customer does not provide all such technical data when it delivers the Interconnection System Impact Study Agreement, Company shall notify Interconnection Customer of the deficiency within five (5) Business Days of the receipt of the executed Interconnection System Impact 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 Interconnection System Impact 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 Company, 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 7.2.2, if Company 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 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 a QFTIA pursuant to Schedule 153; or, pursuant to the Company's OATT, have executed a Large Generator Interconnection Agreement or have requested that an unexecuted Large Generator Interconnection Agreement be filed with FERC.

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

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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 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 non-binding good faith estimate of cost responsibility and a non-binding good faith estimated time to construct.

**7.4. Interconnection System Impact Study Procedures.** Company shall coordinate the Interconnection System Impact Study with any Affected System that is affected by the Interconnection Request pursuant to Section 3.6 above. Company shall utilize existing studies to the extent practicable when it performs the study. Company shall use Reasonable Efforts to complete the Interconnection System Impact Study within ninety (90) Calendar Days after the receipt of the Interconnection System Impact Study Agreement or notification to proceed, study payment, and technical data. If Company uses Clustering, Company 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 Company determines that it will not meet the required time frame for completing the Interconnection System Impact Study, Company shall notify Interconnection Customer as to the schedule status of the Interconnection System Impact Study. If Company 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, Company 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 Company.** Within ten (10) Business Days of providing an Interconnection System Impact Study report to Interconnection Customer, Company 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, or a modification of a higher queued project subject to Section 4.4, or re-designation of the Point of Interconnection pursuant to Section 7.2 Company 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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**Section 8. Interconnection Facilities Study**

**8.1. Interconnection Facilities Study Agreement.** Simultaneously with the delivery of the Interconnection System Impact Study to Interconnection Customer, Company shall provide electronically to Interconnection Customer an Interconnection Facilities Study Agreement in the form of Appendix 4 to this QFTIP. The Interconnection Facilities Study Agreement shall provide that Interconnection Customer shall compensate Company for the actual cost of the Interconnection Facilities Study. Within three (3) Business Days following the Interconnection System Impact Study results meeting, Company shall provide to Interconnection Customer a non-binding good faith estimate of the cost and timeframe for completing the Interconnection Facilities Study. Interconnection Customer shall execute the Interconnection Facilities Study Agreement and deliver electronically the executed Interconnection Facilities Study Agreement to Company within thirty (30) Calendar Days after its receipt, with the required technical data. Small Qualifying Facilities shall pay via ACH or wire transfer a deposit of \$1,000 toward the costs of the Interconnection Facilities Study, as specified in the Interconnection Facilities Study Agreement. Large Qualifying Facilities shall pay via ACH or wire transfer a deposit equal to the greater of \$100,000 or Interconnection Customer's portion of the estimated monthly cost of conducting the Interconnection Facilities Study.

Company shall 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. Company shall continue to hold the amounts on deposit until settlement of the final invoice.

**8.2. 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 Interconnection 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 Company's Interconnection Facilities, Network Upgrades, and Distribution Upgrades necessary to accomplish the interconnection; and an estimate of the time required to complete the construction and installation of such facilities.

**8.3. Interconnection Facilities Study Procedures.** Company shall coordinate the Interconnection Facilities Study with any Affected System pursuant to Section 3.5 above. Company shall utilize existing studies to the extent practicable in performing the Interconnection Facilities Study. Company 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 an executed Interconnection Facilities Study Agreement: 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 Company determines that it will not meet the required time frame for completing the Interconnection Facilities Study, Company shall notify Interconnection Customer as to the schedule status of the Interconnection Facilities Study. If Company 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.

Interconnection Customer may, within thirty (30) Calendar Days after receipt of the draft report, provide electronically written comments to Company, which Company shall include in the final report. Company 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. Company may reasonably extend such fifteen-day period upon notice to Interconnection Customer if Interconnection Customer's comments require Company to perform additional analyses or make other significant modifications prior to the issuance of the final Interconnection Facilities Report. Upon request, Company shall provide Interconnection Customer supporting documentation, workpapers, and databases or data developed in the preparation of the Interconnection Facilities Study, subject to confidentiality arrangements consistent with Section 13.1.

**8.4. Meeting with Company.** Within ten (10) Business Days of providing a draft Interconnection Facilities Study report to Interconnection Customer, Company and Interconnection Customer shall meet to discuss the results of the Interconnection Facilities Study.

**8.5. 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, Company 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.

## **Section 9. Engineering & Procurement ('E&P') Agreement**

Prior to executing a QFTIA, an Interconnection Customer may, in order to advance the implementation of its interconnection, request and Company shall offer the Interconnection Customer, an E&P Agreement that authorizes Company to begin engineering and procurement of long lead-time items necessary for the establishment of the interconnection. However, Company 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 QFTIP. 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.

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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 application for interconnection or either Party terminates the E&P Agreement, to the extent the equipment ordered can be canceled under reasonable terms, Interconnection Customer shall be obligated to pay the associated cancellation costs. To the extent that the equipment cannot be reasonably canceled, Company may elect: (i) to take title to the equipment, in which event Company 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.

**Section 10. Optional Interconnection Study**

**10.1. Optional Interconnection Study Agreement.** On or after the date when Interconnection Customer receives Interconnection System Impact Study results, Interconnection Customer may request via email, and Company shall perform, a reasonable number of Optional Studies. The request shall describe the assumptions that Interconnection Customer wishes Company 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, Company shall provide electronically to Interconnection Customer an Optional Interconnection Study Agreement in the form of Appendix 5.

The Optional Interconnection Study Agreement shall: (i) specify the technical data that Interconnection Customer must provide for each phase of the Optional Interconnection Study, (ii) specify 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) Company's estimate of the cost of the Optional Interconnection Study. To the extent known by Company, 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, Company 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 and deliver electronically the Optional Interconnection Study Agreement within ten (10) Business Days of receipt and deliver the Optional Interconnection Study Agreement, the technical data and send via ACH or wire transfer a \$10,000 deposit to Company.

**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

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will also identify Company's Interconnection Facilities, Distribution Upgrades, 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. Company 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. Company 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 prepayment, and technical and other data called for therein must be provide electronically to Company within ten (10) Business Days of Interconnection Customer receipt of the Optional Interconnection Study Agreement. Company 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 Company 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 Company or refunded to Interconnection Customer, as appropriate. Upon request, Company 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.

**Section 11. Qualifying Facility Transmission Interconnection Agreement**

**11.1. Tender.** Interconnection Customer shall tender electronically 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 Interconnection Customer's comments are submitted, Company shall tender electronically a draft QFTIA, together with draft appendices completed to the extent practicable. The draft QFTIA shall be in the form of Company's WUTC-approved Schedule 153 Attachment "C". Interconnection Customer shall execute and return electronically the completed draft appendices within thirty (30) Calendar Days, or upon a later date agreed upon between the Parties.

**11.2. Negotiation.** Notwithstanding Section 11.1, at the request of Interconnection Customer Company shall begin negotiations with Interconnection Customer concerning the appendices to the QFTIA at any time after Interconnection Customer executes the Interconnection Facilities Study Agreement. Company and Interconnection Customer shall negotiate concerning any disputed provisions of the appendices to the draft QFTIA for not more than sixty (60) Calendar Days after tender in electronic form of the final Interconnection Facilities Study Report. If Interconnection Customer determines that negotiations are at an impasse, it may request termination of the negotiations at any time after tender of the draft QFTIA pursuant to Section 11.1 and initiate Dispute Resolution procedures pursuant to Section 13.5. If Interconnection Customer requests termination of the negotiations, but within sixty (60)

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Calendar Days thereafter fails to initiate Dispute Resolution, it shall be deemed to have withdrawn its Interconnection Request. Unless otherwise agreed by the Parties, if Interconnection Customer has not executed the QFTIA, or initiated Dispute Resolution procedures pursuant to Section 13.5 within sixty (60) Calendar Days of tender of draft QFTIA, it shall be deemed to have withdrawn its Interconnection Request. Company shall provide electronically to Interconnection Customer a final QFTIA within fifteen (15) Business Days after the completion of the negotiation process.

**11.3. Execution.** Within fifteen (15) Business Days after receipt of the final QFTIA, and prior to execution of the final QFTIA, Interconnection Customer shall provide electronically to Company (A) reasonable evidence of continued Site Control or (B) posting of \$250,000, non-refundable additional security, which shall be applied toward future construction costs via ACH or wire transfer. At the same time, Interconnection Customer also shall provide electronically reasonable evidence that one or more of the following milestones in the development of the Qualifying Facility, at Interconnection Customer election, has been achieved: (i) the execution of a contract for the supply or transportation of fuel to the Qualifying Facility; (ii) the execution of a contract for the supply of cooling water to the e Qualifying Facility; (iii) execution of a contract for the engineering for, procurement of major equipment for, or construction of, the Qualifying Facility; (iv) execution of a PPA with Company for the sale of Net Output of electric energy or capacity from the Qualifying Facility to Company; or (v) application for an air, water, or land use permit.

Interconnection Customer shall execute two originals of the tendered QFTIA and return them electronically to Company as soon as practicable, but not later than ten (10) Business Days after receiving the tendered QFTIA.

**11.4. Commencement of Interconnection Activities.** If Interconnection Customer executes the final QFTIA, Company and Interconnection Customer shall perform their respective obligations in accordance with the terms of the QFTIA.

**Section 12. Construction of Company's Interconnection Facilities, Distribution Upgrades, and Network Upgrades**

**12.1. Schedule.** Company and Interconnection Customer shall negotiate in good faith concerning a schedule for the construction of Company's Interconnection Facilities, Distribution Upgrades, and the Network Upgrades.

**12.2. Construction Sequencing**

**12.2.1. General.** In general, the In-Service Date of an Interconnection Customers seeking interconnection to the Transmission System will determine the sequence of construction of Distribution Upgrades and Network Upgrades.



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**12.2.2. Advance Construction of Network Upgrades that are an Obligation of an Entity other than Interconnection Customer.** An Interconnection Customer with a QFTIA, in order to maintain its In-Service Date, may request that Company 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, Company will use Reasonable Efforts to advance the construction of such Network Upgrades to accommodate such request; provided that Interconnection Customer commits to pay Company: (i) any associated expediting costs and (ii) the cost of such Network Upgrades.

**12.2.3. Advancing Construction of Network Upgrades that are Part of an Expansion Plan of the Company.** An Interconnection Customer with an QFTIA, in order to maintain its In-Service Date, may request that Company 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 Company, in time to support such In-Service Date. Upon such request, Company will use Reasonable Efforts to advance the construction of such Network Upgrades to accommodate such request; provided that Interconnection Customer commits to pay Company any associated expediting costs.

**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 Large Qualifying Facilities that are expected to be in service on or before the requested In-Service Date.

**Section 13. 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 a QFTIA.

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 via email, 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

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information. 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 disclosing Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the disclosing Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of the QFTIA; 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 law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under the QFTIA. 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, 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.

**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

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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 Government 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 QFTIA. 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 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 FERC or WUTC .** Notwithstanding anything in this Section 13.1 to the contrary, if the WUTC or its staff, 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 QFTIP, the Party shall provide the requested information to the WUTC or its staff, within the time provided for in the request for information. In providing the information to the WUTC or its staff, the Party must, consistent with WAC 480-07-160, request that the information be treated as confidential and non-public by the WUTC and its staff and that the information be withheld from public disclosure. Parties must notify the other Party prior to the release of the Confidential Information to the WUTC or its staff.

The Party shall notify the other Party to the QFTIA when it is notified by the WUTC or its staff that a request to release Confidential Information has been received by the WUTC, at which time either of the Parties may respond before such information would be made public, pursuant to WAC 480-07-160. Requests from FERC or its staff, in the course of conducting an investigation, shall be treated in a similar manner, consistent with 18 CFR § 388.112.

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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; or (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 QFTIP or as a transmission service provider or a Control Area operator including disclosing the Confidential Information to an RTO or ISO or 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.

This provision 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).

Company shall, at Interconnection Customer's election, destroy, in a confidential manner, or return the Confidential Information provided at the time of Confidential Information is no longer needed.

**13.2. Delegation of Responsibility.** Company may use the services of subcontractors as it deems appropriate to perform its obligations under this QFTIP. Company shall remain primarily liable to Interconnection Customer for the performance of such subcontractors and compliance with its obligations of this QFTIP. 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.

**13.3. Obligation for Study Costs.** Company 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. Company shall not be obligated to perform or continue to perform any studies unless Interconnection Customer has paid all undisputed amounts in compliance herewith.

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**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 8.3 that Company 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 8.3 within the applicable timeframe for such Interconnection Study, then Interconnection Customer may require Company to utilize a third party consultant reasonably acceptable to Interconnection Customer and Company to perform such Interconnection Study under the direction of Company. At other times, Company may also utilize a third party consultant to perform such 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 QFTIA (Subcontractors) and limited to situations where Company determines that doing so will help maintain or accelerate the study process for Interconnection Customer's pending Interconnection Request and not interfere with Company'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 Company shall negotiate all of the pertinent terms and conditions, including reimbursement arrangements and the estimated study completion date and study review deadline. Company 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 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 Company at Company'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 QFIIP, Article 26 of the QFTIA (Subcontractors), and the relevant procedures and protocols as would apply if Company 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. Company shall cooperate with such third party consultant and Interconnection Customer to complete and issue the Interconnection Study in the shortest reasonable time.

Issued: October 29, 2021

Effective: January 1, 2022

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**13.5. Disputes**

**13.5.1. Submission.** Prior to commencing any complaint or court proceedings regarding any dispute between Customer and the Company arising under this Schedule 153 QFTIP, (i) Customer and the Company shall each make good faith efforts to resolve such dispute pursuant to alternative dispute resolution ("ADR") procedures consistent with WAC 480-09-465 and (ii) pursuant to the foregoing, Customer and the Company shall make use of ADR procedures to the maximum extent practicable in resolving such dispute.

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**APPENDIX 1 TO QFTIP****INTERCONNECTION REQUEST**

1. The undersigned Interconnection Customer electronically submits this request to interconnect its Qualifying Facility, with Company's Transmission System pursuant to Company's Schedule 153.
2. This Interconnection Request is for (check one):  
  
 A proposed new Qualifying Facility.  
  
 An increase in the generating capacity or a Material Modification of an existing Qualifying Facility.
3. The type of interconnection service requested is Qualifying Facility Transmission Interconnection Service.
4. Interconnection Customer provides the following information:
  - a. Address or location of the proposed new Qualifying Facility site (to the extent known) or, in the case of an existing Qualifying Facility, the name and specific location of the existing Qualifying 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;
  - d. Commercial Operation Date (Day, Month, and Year);
  - e. Name, address, telephone number, and email address of Interconnection Customer's contact person;
  - f. Approximate location of the proposed Point of Interconnection (optional);
  - g. Interconnection Customer Data (set forth in Attachment A to Appendix 1 of QFTIP); and
  - h. Primary frequency response operating range for electric storage resources.
  - i. Requested capacity (in MW) of Interconnection Service (if lower than the Qualifying Facility capacity).
5. Applicable deposit amount as specified in the QFTIP.

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6. Evidence of Site Control as specified in the QFTIP (check one)

Is attached to this Interconnection Request

Will be provided at a later date in accordance with this QFTIP

7. This Interconnection Request shall be submitted to the representative indicated below:  
[To be completed by Company]

8. Representative of Interconnection Customer to contact: [To be completed by  
Interconnection Customer]

9. This Interconnection Request is submitted by:

Name of Interconnection Customer: \_\_\_\_\_

By (signature): \_\_\_\_\_

Name (type or print): \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**PUGET SOUND ENERGY**

**Attachment A to Appendix 1  
Interconnection Request**

**QUALIFYING FACILITY DATA UNIT RATINGS**

**UNIT RATINGS**

kVA \_\_\_\_\_ °F \_\_\_\_\_ Voltage \_\_\_\_\_  
 Power Factor \_\_\_\_\_  
 Speed (RPM) \_\_\_\_\_ Connection (e.g. Wye) \_\_\_\_\_  
 Short Circuit Ratio \_\_\_\_\_ Frequency, Hertz \_\_\_\_\_  
 Stator Amperes at Rated kVA \_\_\_\_\_ Field Volts \_\_\_\_\_  
 Max Turbine MW \_\_\_\_\_ °F \_\_\_\_\_

**COMBINED TURBINE-GENERATOR-EXCITER INERTIA DATA**

Inertia Constant, H = \_\_\_\_\_ kW sec/kVA  
 Moment-of-Inertia, WR<sup>2</sup> = \_\_\_\_\_ lb. ft.<sup>2</sup>

**REACTANCE DATA (PER UNIT-RATED KVA)**

**DIRECT AXIS      QUADRATURE AXIS**

Synchronous - saturated	X <sub>dv</sub> _____	X <sub>qv</sub> _____
Synchronous - unsaturated	X <sub>di</sub> _____	X <sub>qi</sub> _____
Transient - saturated	X' <sub>dv</sub> _____	X' <sub>qv</sub> _____
Transient - unsaturated	X' <sub>di</sub> _____	X' <sub>qi</sub> _____
Subtransient - saturated	X'' <sub>dv</sub> _____	X'' <sub>qv</sub> _____
Subtransient - unsaturated	X'' <sub>di</sub> _____	X'' <sub>qi</sub> _____
Negative Sequence - saturated	X <sub>2v</sub> _____	
Negative Sequence - unsaturated	X <sub>2i</sub> _____	
Zero Sequence - saturated	X <sub>0v</sub> _____	
Zero Sequence - unsaturated	X <sub>0i</sub> _____	
Leakage Reactance	X <sub>lm</sub> _____	

**PUGET SOUND ENERGY**

**FIELD TIME CONSTANT DATA (SEC)**

Open Circuit	T'do _____	T'qo _____
Three-Phase Short Circuit Transient	T'd3 _____	T'q _____
Line to Line Short Circuit Transient	T'd2 _____	
Line to Neutral Short Circuit Transient	T'd1 _____	
Short Circuit Subtransient	T''d _____	T''q _____
Open Circuit Subtransient	T''do _____	T''qo _____

**ARMATURE TIME CONSTANT DATA (SEC)**

Three Phase Short Circuit	Ta3 _____
Line to Line Short Circuit	Ta2 _____
Line to Neutral Short Circuit	Ta1 _____

NOTE: If requested information is not applicable, indicate by marking "N/A."

**MW CAPABILITY AND PLANT CONFIGURATION  
LARGE QUALIFYING FACILITY DATA**

**ARMATURE WINDING RESISTANCE DATA (PER UNIT)**

Positive	R1 _____
Negative	R2 _____
Zero	R0 _____

Rotor Short Time Thermal Capacity I <sub>2</sub> <sup>2</sup> t	=	_____
Field Current at Rated kVA, Armature Voltage and PF	=	_____ amps
Field Current at Rated kVA and Armature Voltage, 0 PF	=	_____ amps
Three Phase Armature Winding Capacitance	=	_____ microfarad
Field Winding Resistance	=	_____ ohms _____ °C
Armature Winding Resistance (Per Phase)	=	_____ ohms _____ °C

**PUGET SOUND ENERGY**

**CURVES**

Provide Saturation, Vee, Reactive Capability, Capacity Temperature Correction curves.  
Designate normal and emergency Hydrogen Pressure operating range for multiple curves.

**GENERATOR STEP-UP TRANSFORMER DATA RATINGS**

Capacity                      Self-cooled  
   Maximum Nameplate  
\_\_\_\_\_ / \_\_\_\_\_ kVA

Voltage Ratio(Generator Side/System side/Tertiary)  
\_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ kV

Winding Connections (Low V/High V/Tertiary V (Delta or Wye)  
\_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Fixed Taps Available \_\_\_\_\_

Present Tap Setting \_\_\_\_\_

**IMPEDANCE**

Positive              Z<sub>1</sub> (on self-cooled kVA rating) \_\_\_\_\_ % \_\_\_\_\_ X/R

Zero                      Z<sub>0</sub> (on self-cooled kVA rating) \_\_\_\_\_ % \_\_\_\_\_ X/R

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**PUGET SOUND ENERGY**

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**EXCITATION SYSTEM DATA**

Identify appropriate IEEE model block diagram of excitation system and power system stabilizer (PSS) for computer representation in power system stability simulations and the corresponding excitation system and PSS constants for use in the model.

**GOVERNOR SYSTEM DATA**

Identify appropriate IEEE model block diagram of governor system for computer representation in power system stability simulations and the corresponding governor system constants for use in the model.

**WIND GENERATORS**

Number of generators to be interconnected pursuant to this Interconnection Request:

\_\_\_\_\_

Elevation: \_\_\_\_\_    \_\_\_\_\_ Single Phase    \_\_\_\_\_ Three Phase

Inverter manufacturer, model name, number, and version:

\_\_\_\_\_

List of adjustable setpoints for the protective equipment or software:

\_\_\_\_\_

Note: A completed General Electric Company Power Systems Load Flow (PSLF) data sheet or other compatible formats, such as IEEE and PTI power flow models, must be supplied with the Interconnection Request. If other data sheets are more appropriate to the proposed device, then they shall be provided and discussed at Scoping Meeting.

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**INDUCTION GENERATORS**

- (\*) Field Volts: \_\_\_\_\_
- (\*) Field Amperes: \_\_\_\_\_
- (\*) Motoring Power (kW): \_\_\_\_\_
- (\*) Neutral Grounding Resistor (If Applicable): \_\_\_\_\_
- (\*)  $I_2^2t$  or K (Heating Time Constant): \_\_\_\_\_
- (\*) Rotor Resistance: \_\_\_\_\_
- (\*) Stator Resistance \_\_\_\_\_
- (\*) Stator Reactance \_\_\_\_\_
- (\*) Rotor Reactance \_\_\_\_\_
- (\*) Magnetizing Reactance \_\_\_\_\_
- (\*) Short Circuit Reactance \_\_\_\_\_
- (\*) Exciting Current \_\_\_\_\_
- (\*) Temperature Rise \_\_\_\_\_
- (\*) Frame Size \_\_\_\_\_
- (\*) Design Letter \_\_\_\_\_
- (\*) Reactive Power Required In Vars (No Load) \_\_\_\_\_
- (\*) Reactive Power Required In Vars (Full Load): \_\_\_\_\_
- (\*) Total Rotating Inertia, H \_\_\_\_\_ Per Unit on KVA Base

Note: Please consult Company prior to submitting the Interconnection Request to determine if the information designated by (\*) is required.

**PUGET SOUND ENERGY**

**3 Inverter Based Resource (IBR) Appendix A**

Number of inverters	_____	
MW rating of each inverter	_____	MW
Total MW rating of system	_____	MW
Proposed output of plant	_____	MW
What is the controller for the plant?	_____	
Max operating temperature	_____	F
Minimum operating temperature	_____	F
Voltage Rating of inverters (AC)	_____	VAC
Inverter Make and Model	_____	
Are inverters UL 1741 listed		Yes / No
Sub transient Reactance (first cycle)	_____	PU
Transient Reactance (2-3 cycles)	_____	PU
Synchronous Reactance (4 cycles and later)	_____	PU
Negative Sequence Impedance	_____	PU
Zero Sequence Impedance	_____	PU
Short Circuit Current in multiple of Full Load Current		
Instantaneous (first cycle)	_____	% FLC
Controlled fault magnitude (2-3 cycles)	_____	% FLC
Long Term fault (4 cycles and above)	_____	% FLC
How long will the IBR output current during fault conditions (maximum settings)?		
Does the proposed system have low voltage ride through?		Yes / No

**PUGET SOUND ENERGY**

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**3.1 General Battery Energy Storage Device Data:**

Total Nominal Discharge/Charge Power = \_\_\_\_\_ MW

Total Storage Energy at rated temperature = \_\_\_\_\_ MWH @ \_\_\_\_\_ °C

Nominal Output AC Voltage = \_\_\_\_\_ Volts

Permissible AC Voltage Range = From \_\_\_\_\_ To \_\_\_\_\_ Volts

Nominal Output AC Frequency: = \_\_\_\_\_ Hz

Permissible AC Frequency Range = From \_\_\_\_\_ To \_\_\_\_\_ Hz

External Output Wiring (Phase Wire Numbers) = \_\_\_\_\_ Phases \_\_\_\_\_ Wires

The Upper Limit of State of Charge (SOC) = \_\_\_\_\_%

The Lower Limit of State of Charge (SOC) = \_\_\_\_\_%

The Limit of Depth of Discharge (DOD) = \_\_\_\_\_%

The Limit of Depth of Discharge (DOD) = \_\_\_\_\_%

Maximum Charging Duration = \_\_\_\_\_ Hours

Maximum Discharging Duration = \_\_\_\_\_ Hours

The responding time of switching between charge and discharge = \_\_\_\_\_ Seconds

Maximum Current THD Rate = \_\_\_\_\_

Maximum Voltage THD Rate = \_\_\_\_\_

Power Factor Range = From \_\_\_\_\_ To \_\_\_\_\_

Operation Ambient Temperature = \_\_\_\_\_ °C

Permissible Ambient Humidity Range = From \_\_\_\_\_ To \_\_\_\_\_

Noise Level = \_\_\_\_\_ °db

Cell Standard Cycle Life = \_\_\_\_\_ °Cycles

Assuming 1 Cycle Each Day,  
What's Cell Life Time in Years = \_\_\_\_\_ °Years

**PUGET SOUND ENERGY**

Provide Voltage Abnormality Tolerance Table (Voltage% Vs. Seconds)	=	(Yes / No)
Provide Frequency Abnormality Tolerance Table (Voltage% Vs. Seconds)	=	(Yes / No)
Provide Low Voltage Ride Through Curve	=	(Yes / No)
Is Following PCS Protection Provided?	=	(Yes / No)
Short circuit protection	=	(Yes / No)
Overload protection	=	(Yes / No)
The Size of Plant Load Served by Battery Storage	=	_____ MVA
The Type of Plant Load Served by Battery Storage:	=	_____
The Power Factor of Plant Load Served by Battery Storage	=	_____
Is the Battery Storage Manufacturer's Technical Document attached?	=	(Yes / No)

**3.2 Solar Generation or Battery Storage Power Factor Control:**

In order to meet 0.95 lagging and leading power factor requirement at the high-side of the generator substation, the appropriate control should be implemented. The following data is required:

Provide the Curve or Table Showing load% V.S Power Factor	=	(Yes / No)
What is the Power Factor Control used?	=	_____
Provide the Control Block Diagram of the Power Factor Control	=	(Yes / No)
Provide Parameter Table for the Control Block Diagram of the Power Factor Control	=	(Yes / No)



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Is There Capacitor Installed to Compensate and Achieve PF Requirement at POI? = (Yes / No)

If Yes to Above Question, The Data, Step and Control of Capacitor Must Be Provided. = (Yes / No / N/A)

**3.3 Voltage Control:**

If interconnection customer has voltage control function, the data should be provided:

Is Voltage Control Implemented? = (Yes / No)

If Yes, Please Fill in the Following Questions. If No, Skip.

Which Bus Is Regulated By Voltage Control Scheme? (BES Terminal Bus or Transformer Bus?) = \_\_\_\_\_

The Target Voltage Range (Volts +/- %) = \_\_\_\_\_

Provide Control Block Diagram = (Yes / No)

Provide Parameter Table of Control Block Diagram = (Yes / No)

**3.4 Computer Models**

To represent the Interconnection Customer’s generator(s) in power system stability simulations for the study, the completed model type and block diagrams along with the corresponding model constants must be supplied with the Interconnection Request. The Interconnection Customer shall follow the “WECC Dynamic Modeling Procedure”. The WECC procedure specifies that models shall be those in the “WECC Approved Dynamic Model Library”, or it gives direction if a non-WECC approved model(s) is required. If the Interconnection Customer seeks to use a non-WECC approved model(s) the Interconnection Customer shall also follow the “WECC Criteria for Acceptance of New Dynamic Models”. These documents are available on the WECC web site under: [www.wecc.org](http://www.wecc.org) > Program Areas > Reliability Planning & Performance Analysis > System Stability Planning > Modeling > Generators.

Certainly, if interconnection customer would like to choose other WECC-approved models, they should consult with PSE engineers.

**PUGET SOUND ENERGY**

**Customer-Owned Inverter Step-Up Transformer Data (Low Voltage to Medium Voltage)**

The following is the battery energy storage's step-up transformer data interconnection customer needs to provide. The transformer test report can be submitted in lieu of the above data if it contains all of the required data. (Typically this is between the inverters and the collector bus)

**Table I**

	<b>Primary Winding</b>	<b>Secondary Winding</b>	<b>Tertiary Winding</b>
<b>The Rated Voltage:</b>	_____ kV	_____ kV	_____ kV
<b>Rating Self-Cooled:</b>	_____ MVA	_____ MVA	_____ MVA
<b>Rating Maximum Forced Cooled:</b>	_____ MVA	_____ MVA	_____ MVA
<b>Winding Connections (such as Wye, Delta or Grounded Wye...):</b>	_____	_____	_____
<b>If Grounded WYE, Neutral Resistance:</b>	_____ Ohms	_____ Ohms	_____ Ohms
<b>If Grounded WYE, Neutral Reactance:</b>	_____ Ohms	_____ Ohms	_____ Ohms

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**Table I (Continued)**

	<b>Primary Winding</b>	<b>Secondary Winding</b>	<b>Tertiary Winding</b>
<b>The Rated Voltage:</b>	_____ kV	_____ kV	_____ kV
<b>Rating Self-Cooled:</b>	_____ MVA	_____ MVA	_____ MVA

	<b>Primary Secondary Winding</b>	<b>Primary To Tertiary Winding</b>	<b>Primary To Secondary Winding</b>
<b>Capacity Base Between Two Windings:</b>	_____ MVA	_____ MVA	_____ MVA
<b>Load Loss @ 75C</b>	_____ Watts	_____ Watts	_____ Watts
<b>Positive Sequence Impedance</b>	_____ %	_____ %	_____ %
<b>Zero Sequence Impedance</b>	_____ %	_____ %	_____ %
<b>Fixed Taps Available:</b>			
<b>Planned Tap Setting:</b>			

**3.6 Customer-Owned Main Facility Step-Up Transformer Data (Medium Voltage to Transmission Voltage)**

The following is the generator step-transformer data interconnection customer needs to provide. Typically this is between the collector bus and the utility interconnect.

Transformer Capacity = \_\_\_\_\_

Self-Cooled Type = \_\_\_\_\_

Maximum Nameplate = \_\_\_\_\_ kVA

**PUGET SOUND ENERGY**

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Voltage Rating at Generator Side	= _____	kV
Voltage Rating at System Side	= _____	kV
Voltage Rating at Tertiary Side	= _____	kV
Winding Connection at Low Voltage Side	= _____	
Winding Connection at High Voltage Side	= _____	
Winding Connection at Tertiary Voltage Side	= _____	
Available Total H.V Taps	= _____	
*The Percentage of Each Available H.V Tap	= _____	%
Available Total L.V Taps	= _____	
*The Percentage of Each Available L.V Tap	= _____	%
The Present Tap Setting at H.V	= _____	kV
The Present Tap Setting at L.V	= _____	kV
Positive $Z_1$ on Self-Cooled kVA Rating	= _____	%
X/R Ratio of Positive $Z_1$	= _____	
Zero $Z_0$ on Self-Cooled kVA Rating	= _____	%
X/R Ratio of Zero $Z_0$	= _____	

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**APPENDIX 2 TO QFTIP  
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 State of \_\_\_\_\_ ("Interconnection Customer") and Puget Sound Energy, a corporation existing under the laws of the State of Washington, ("Company"). Interconnection Customer and Company each may be referred to as a "Party," or collectively as the "Parties."

**RECITALS**

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

WHEREAS, Interconnection Customer desires to interconnect the Qualifying Facility with the Transmission System; and

WHEREAS, Interconnection Customer has requested via electronic means to Company to perform an Interconnection Feasibility Study to assess the feasibility of interconnecting the proposed Qualifying 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:

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in Company's WUTC-approved QFTIP.
- 2.0 Interconnection Customer elects and Company shall cause to be performed an Interconnection Feasibility Study consistent with Section 6.0 of this QFTIP.
- 3.0 The scope of the Interconnection Feasibility Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4.0 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. Company 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 QFTIP. If, after the designation of the Point of Interconnection pursuant to Section 3.3.4 of the QFTIP, Interconnection Customer modifies its Interconnection Request

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pursuant to Section 4.4, the time to complete the Interconnection Feasibility Study may be extended.

- 5.0 The Interconnection Feasibility Study report shall provide the following information:
  - preliminary identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection;
  - preliminary identification of any thermal overload or voltage limit violations resulting from the interconnection; and
  - preliminary description and non-bonding estimated cost of facilities required to interconnect the Large Qualifying Facility to the Transmission System and to address the identified short circuit and power flow issues.
- 6.0 Interconnection Customer shall provide a deposit of \$1,000 if it is a Small Qualifying Facility or \$10,000 if it is a Large Qualifying Facility for the performance of the Interconnection Feasibility Study submitted via ACH or wire transfer.

Upon receipt of the Interconnection Feasibility Study Company 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.

- 7.0 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 QFTIP and the QFTIA.

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.

PUGET SOUND ENERGY [Insert name of Interconnection Customer]

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Issued: October 29, 2021

Effective: January 1, 2022

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Attachment "B" to Schedule 153, Page 47

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**PUGET SOUND ENERGY**

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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 Company]

**PUGET SOUND ENERGY**

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**APPENDIX 3 TO QFTIP  
INTERCONNECTION SYSTEM IMPACT 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 State of \_\_\_\_\_ ("Interconnection Customer") and Puget Sound Energy, a corporation existing under the laws of the State of Washington ("Company"). Interconnection Customer and Company each may be referred to as a "Party," or collectively as the "Parties."

**RECITALS**

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

WHEREAS, Interconnection Customer desires to interconnect the Qualifying Facility with the Transmission System;

WHEREAS, Company 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 Company does not require the Interconnection Feasibility Study.); and

WHEREAS, Interconnection Customer has requested via email Company to perform an Interconnection System Impact Study to assess the impact of interconnecting the QF 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:

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in Company's Schedule 153.
- 2.0 Interconnection Customer elects and Company shall cause to be performed an Interconnection System Impact Study consistent with Section 7 of this QFTIP in accordance with Company's Schedule 153.
- 3.0 The scope of the Interconnection System Impact Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4.0 The Interconnection System Impact Study will be based upon the results of the Interconnection Feasibility Study and the technical information provided by Interconnection Customer in the Interconnection Request, subject to any modifications in accordance with Section 4.4 of the QFTIP. Company reserves the right to request additional technical information from Interconnection Customer as may reasonably



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become necessary consistent with Good Utility Practice during the course of the Interconnection Customer 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.

5.0 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;
- identification of any thermal overload or voltage limit violations resulting from the interconnection;
- identification of any instability or inadequately damped response to system disturbances resulting from the interconnection; and
- description and non-binding, good faith estimated cost of facilities required to interconnect the Large Qualifying Facility to the Transmission System and to address the identified short circuit, instability, and power flow issues.

6.0 Interconnection Customer shall provide a deposit of \$1,000 if it is a Small Qualifying Facility or \$50,000 if it is a Large Qualifying Facility for the performance of the Interconnection System Impact Study to be paid via ACH or wire transfer. Company'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, Company 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.

7.0 Miscellaneous. The Interconnection System Impact 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 QFTIP and the QFTIA.

Issued: October 29, 2021

Effective: January 1, 2022

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Attachment "B" to Schedule 153, Page 50

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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.

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[Insert name of Interconnection Customer]

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Issued: October 29, 2021

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Attachment A to Appendix 3  
Interconnection System Impact  
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 QFTIP, 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 Company]

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**APPENDIX 4 TO QFTIP  
INTERCONNECTION FACILITIES 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 State of \_\_\_\_\_, ("Interconnection Customer,") and Puget Sound Energy, a corporation existing under the laws of the State of Washington, ("Company"). Interconnection Customer and Company each may be referred to as a "Party," or collectively as the "Parties."

**RECITALS**

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

WHEREAS, Interconnection Customer desires to interconnect the Qualifying Facility with the Transmission System;

WHEREAS, Company has completed an Interconnection System Impact Study (the "System Impact Study") and provided the results of said study to Interconnection Customer; and

WHEREAS, Interconnection Customer has requested via email Company 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 Qualifying Facility to the Transmission System.

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

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in Company's Schedule 153.
- 2.0 Interconnection Customer elects and Company shall cause an Interconnection Facilities Study consistent with Section 8 of this QFTIP.
  - 3.0 The scope of the Interconnection Facilities Study shall be subject to the assumptions set forth in Attachment A and the data provided in Attachment B to this Agreement.
- 4.0 The Interconnection Facilities Study report (i) shall provide a description, estimated cost of (consistent with Attachment A), schedule for required facilities to interconnect the Large Qualifying Facility to the Transmission System and (ii) shall address the short

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circuit, instability, and power flow issues identified in the Interconnection System Impact Study.

- 5.0 Interconnection Customer shall provide a deposit of \$1,000 if it is a Small Qualifying Facility or \$100,000 if it is a Large Qualifying Facility for the performance of the Interconnection Facilities Study to be paid via ACH or wire transfer. The time for completion of the Interconnection Facilities Study is specified in Attachment A.

Company shall 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. Company shall continue to hold the amounts on deposit until settlement of the final invoice for the study.

- 6.0 Miscellaneous. The Interconnection Facility 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 QFTIP and the QFTIA.

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.

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[Insert name of Interconnection Customer]

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Issued: October 29, 2021

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Attachment A to Appendix 4  
Interconnection Facilities  
Study Agreement

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

Company 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 an executed copy of this Interconnection Facilities Study Agreement

- 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.

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Attachment B to Appendix 4 Interconnection Facilities  
Study Agreement

**DATA FORM TO BE PROVIDED BY INTERCONNECTION CUSTOMER WITH THE  
INTERCONNECTION FACILITIES 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 Company 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 Large Qualifying Facility?

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 Company'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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**APPENDIX 5 TO QFTIP  
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 State of \_\_\_\_\_ ("Interconnection Customer,") and Puget Sound Energy, a corporation existing under the laws of the State of Washington ("Company"). Interconnection Customer and Company each may be referred to as a "Party," or collectively as the "Parties."

**RECITALS**

WHEREAS, Interconnection Customer is proposing to develop a Qualifying Facility or generating capacity addition to an existing Qualifying 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 Company an Interconnection Request; and

WHEREAS, on or after the date when Interconnection Customer receives the Interconnection System Impact Study results, Interconnection Customer has further requested via email that Company prepare an Optional Interconnection Study;

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

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in Company's Schedule 153.
- 2.0 Interconnection Customer elects and Company shall cause an Optional Interconnection Study consistent with Section 10 of this QFTIP.
- 3.0 The scope of the Optional Interconnection Study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4.0 The Optional Interconnection Study shall be performed solely for informational purposes.
- 5.0 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 Company's Interconnection Facilities and the Network Upgrades, and the estimated cost thereof that may be required

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to provide transmission service or interconnection service based upon the assumptions specified by Interconnection Customer in Attachment A.

- 6.0 Interconnection Customer shall provide a deposit of \$10,000 for the performance of the Optional Interconnection Study via ACH or wire transfer. Company's good faith estimate for the time of completion of the Optional Interconnection Study is [insert date].

Upon receipt of the Optional Interconnection Study, Company 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.

- 7.0 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 QFTIP and the QFTIA.

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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.

PUGET SOUND ENERGY

[Insert name of Interconnection Customer]

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_