



**Small Generator Facility
Tier 1 Interconnection Request Application Form
(Applies to Lab Certified, Inverter-based Small Generator Facilities
With a Name Plate capacity of 25 kW or less)**

Applicant Contact Information;

Name _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

System Installer;

Check if Owner Installed

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Small Generator Facility Information:

Location (if different from above): _____
Idaho Power Customer: Yes No
Account Number (existing Idaho Power customers): _____
Proposed Operation Mode QF Other
If QF, has Applicant completed FERC "Notice of Self Certification"? Yes No
Prime Mover Type _____
Inverter Manufacturer: _____ Model _____
Inverter Electric Nameplate Capacity: ____ (kW) ____ (kVA) ____
Inverter Electrical Connection: ____ (AC Volts), Phase: Single or Three Phase
System Design Capacity: _____ (kW) _____ (kVA)
Customer-Site Load: _____ (kW) (if none, so state)
Maximum Physical Export Capability Requested: _____ (kW)



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Prime Mover: Photovoltaic [] Reciprocating Engine [] Fuel Cell []
Turbine [] Other _____
Energy Source: Solar [] Wind [] Hydro [] Diesel [] Natural Gas
Fuel Oil [] Other _____

Is the inverter lab certified? Yes [] No []
(If yes, attach manufacturer's cut sheet showing listing and label information from the appropriate listing authority, e.g. UL 1741 listing. If no, facility does not qualify for Tier 1 consideration. Refer to the PUC rules found in OAR 860, Division 082 for details)

Estimated Commissioning Date: _____

Estimated Commissioning Cost: _____

Applicant Signature:

I here-by attest that the information submitted on this application is accurate to the best of my knowledge and have included the non-refundable application fee of \$100 with my Tier 1 Interconnection Request:

_____ (Applicant Signature)

Title: _____ Date: _____

Application fee (\$100) included []

Interconnection Request Acknowledgement:

Receipt of the application and application fee is hereby acknowledged.

Approval for a Tier 1 Small Generator Facility interconnection is contingent upon the Applicant's Small Generator Facility passing the Tier 1 screens and completing the review process set forth in PUC Rule)AR 860, Division 082 and is not granted by the Public Utility's signature on this Application Form..

Public Utility Representative Signature: _____ Date: _____

Printed Name: _____ Title: _____

Indicate whether Public Utility plans to perform Witness Test: Yes [] No []

Note: The Public Utility shall retain a copy of this completed and signed form and return the original and any attachments to the Applicant.



**Application for Small Generator Facility Interconnection
Tier 2, Tier 3 or Tier 4 Interconnection
(For Small Generator Facilities with Electric Nameplate Capacities of 10 MW and less)**

Applicant Contact Information :

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Address of Customer Facility Where Small Generator Facility will be Interconnected :

(if different from above)

Street Address: _____

City: _____ State: _____ Zip Code: _____

System Installer/Consulting Engineer :

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Electric Service Information for Applicant's Facility Where Generator Will Be Interconnected :

Capacity: _____(Amps) Voltage: _____(Volts)

Type of Service: Single Phase Three Phase

Will a transformer be used between the generator and the point of interconnection? ___ Yes ___ No

Transformer Data (If Applicable, for Interconnection Customer-Owned Transformer):

Is the transformer: ___ single phase ___ three phase? Size: _____ kVA

Transformer Impedance: _____% on _____ kVA Base

If Three Phase:

Transformer Primary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded

Transformer Secondary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded

Transformer Tertiary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded



Requested Procedure Under Which to Evaluate Interconnection Request¹ :

Please indicate below which review procedure applies to the interconnection request.

- Tier 2** - Certified interconnection equipment with an aggregate Electric Nameplate Capacity of 2 MW or less. Indicate type of certification below. The application fee amount is \$500.
 - Lab Tested - tested to IEEE 1547.1 and other specified standards by a nationally recognized testing laboratory and is appropriately labeled.
 - Field Tested – an identical small generator facility has been approved by an Oregon utility under a Tier 4 study review process within the prior 36 months of the date of this interconnection request.
- Tier 3** – A Small Generator Facility connected to the T&D system that does not export power. The Electric Nameplate Capacity rating may be 50 kW or smaller, if connecting to area network or 10 MW or smaller, if connecting to a radial distribution feeder. The application fee amount is \$1000.
- Tier 4** – Electric Nameplate Capacity rating is 10 MW or smaller and the Small Generator Facility does not qualify for a Tier 1, Tier 2 or Tier 3 review or has been reviewed but not approved under a Tier 1, Tier 2 or Tier 3 review. Application fee amount is \$1000.

¹ **Note:** Descriptions for interconnection review categories do not list all criteria that must be satisfied. For a complete list of criteria, please refer to PUC Rule OAR 860, Division 082, (Rule).

Field Tested Equipment:

If the field tested equipment box is checked above, please include with the completed application the following information which will be required for review of Tier 2 field tested small generator facilities:

- A copy of the Certificate of Completion, signed by an Oregon utility that has approved an identical small generator facility for parallel operation.
- A copy of all documentation submitted to the Oregon utility that approved the Small Generator Facility for parallel operation under a Tier 4 study process.
- A written statement by the Applicant indicating that the small generator facility being proposed is identical, except for Minor Equipment Modification, to the one previously approved by an Oregon utility for parallel operation.
- If a Tier 2 Application, utilizing Field Tested equipment, is proposed the remainder of the application will not be required to be completed.

Small Generator Facility Information:

List interconnection components/system(s) to be used in the Small Generation Facility that is lab certified (required for Lab Tested, Tier 2 Interconnection requests only).



Tier 2, Tier 3 or Tier 4 Interconnection Application

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Component/System NRTL Providing Label & Listing

1. _____

2. _____

3. _____

4. _____

5. _____

Please provide copies of manufacturer brochures or technical specifications

Energy Production Equipment/Inverter Information:

Synchronous Induction Inverter Other _____

Electric Nameplate Rating: _____ kW _____ kVA

Rated Voltage: _____ Volts

Rated Current: _____ Amps

System Type Tested (Total System): Yes No; (attach product literature)

Customer-Site Load: _____ (kW) (if none, so state)

Maximum Physical Export Capability Requested: _____ (kW)

Individual Generator Power Factor

Rated Power Factor: Leading: _____ Lagging: _____

For Synchronous Machines:

Manufacturer: _____

Model No.: _____ Version No.: _____

Submit copies of the Saturation Curve and the Vee Curve.

Salient Non-Salient

Torque: _____ lb-ft Rated RPM: _____

Field Amperes: _____ at rated generator voltage and current and _____ % PF over-excited

Type of Exciter: _____

Output Power of Exciter: _____

Type of Voltage Regulator: _____

Locked Rotor Current: _____ Amps

Synchronous Speed: _____ RPM

Winding Connection: _____

Min. Operating Freq./Time: _____

Generator Connection: Delta Wye Wye Grounded

Direct-axis Synchronous Reactance: (Xd) _____ ohms

Direct-axis Transient Reactance: (X'd) _____ ohms

Direct-axis Sub-transient Reactance: (X''d) _____ ohms



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Negative Sequence Reactance, X_2 : _____ P.U.

Zero Sequence Reactance, X_0 : _____ P.U.

KVA Base: _____

Field Volts: _____

Field Amperes: _____

Provide appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted.

For Induction Machines:

Manufacturer: _____

Model No.: _____ Version No.: _____

Locked Rotor Current: _____ Amps

Rotor Resistance: (R_r) _____ ohms Exciting Current: _____ Amps

Rotor Reactance: (X_r) _____ ohms Reactive Power Required: _____

Magnetizing Reactance: (X_m) _____ ohms _____ VARs (No Load)

Stator Resistance: (R_s) _____ ohms _____ VARs (Full Load)

Stator Reactance: (X_s) _____ ohms

Short Circuit Reactance: (X''_d) _____ ohms

Phases: Single Three-Phase

Frame Size: _____ Design Letter: _____ Temp. Rise: _____ °C.

Reverse Power Relay Information: (This section applies to Tier 3 Review Only)

Manufacturer: _____ Model: _____

Electric Nameplate Capacity rating: (kVA) _____

Additional Information For Inverter Based Facilities:

Inverter Information:

Manufacturer: _____ Model: _____

Type: Forced Commutated Line Commutated

Electric Nameplate Capacity Rated Output: _____ Amps _____ Volts _____ kW

Efficiency: _____% Power Factor: _____%

DC Source / Prime Mover:

Solar Wind Hydro Other _____

Electric Nameplate Capacity Rating: _____ kW Rating: _____ kVA



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Rated Voltage: _____ Volts
Open Circuit Voltage (If applicable): _____ Volts
Rated Current: _____ Amps
Short Circuit Current (If applicable): _____ Amps

Other Facility Information:

Is Facility a QF? Yes No
If yes, has Applicant completed FERC "Notice of Self Certification"? Yes No
One Line Diagram attached: Yes No
Plot Plan attached: Yes No
Installation Test Plan attached: Yes No
Estimated Commissioning Date (if known): _____

Enclose copy of site electrical one-line diagram showing the configuration of all Small Generating Facility equipment, current and potential circuits, and protection and control schemes.

Enclose copy of any site documentation that indicates the precise physical location of the proposed Small Generating Facility (e.g., USGS topographic map, distance from public utility facility number, other diagram or documentation).

Enclose copy of any documents that provide proof of site control.

Applicant Signature:

I hereby certify that all of the information provided in this application request form is correct.

Applicant Signature: _____
Title: _____ Date: _____

An application fee is required before the application can be processed. Please verify that the appropriate fee is included with the application:

Application fee included
Amount _____

Public Utility Acknowledgement:

I hereby acknowledge the receipt of an Interconnection Request and Application Fee, Approval for a Tier 2, Tier 3 or Tier 4 Small Generator Facility interconnection is contingent upon the Applicant's Small Generator Facility passing the screens and completing the review process set forth in the PUC rules found in OAR 860, Division 082 and is not granted by the Public Utility's signature on this Application Form.

Public Utility Signature: _____ Date: _____



Tier 2, Tier 3 or Tier 4 Interconnection Application

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Printed Name: _____ Title: _____

Note: The Public Utility shall retain a copy of this completed and signed form and return the original and any attachments to the Applicant.



Interconnection Feasibility Study Form Agreement

This agreement is made and entered into this _____ day of _____ by and _____ between _____, a _____ organized and existing under the laws of the State of _____, (“Applicant,”) and Idaho Power Company, a corporation existing under the laws of the State of Idaho, (“Public Utility”). Applicant and Public Utility each may be referred to as a “Party,” or collectively as the “Parties.”

Recitals:

Whereas, The Applicant is proposing to develop a Small Generating Facility or adding generating capacity to an existing Small Generating Facility consistent with the Application completed by Interconnection Customer on _____; and

Whereas, Applicant desires to interconnect the Small Generating Facility with Public Utility’s Transmission and Distribution System (“T&D System”); and

Whereas, Applicant has requested for the Public Utility to perform an Interconnection Feasibility Study to assess the feasibility of interconnecting the proposed Small Generating Facility to Public Utility’s T&D System;

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

1. When used in this Agreement, with initial capitalization, the terms specified shall have the meanings given in PUC Rule OAR 860-082-0005- 860-082-0085.
2. Interconnection Customer elects and Electric Distribution Company shall cause to be performed an Interconnection Feasibility Study consistent with OAR 860-082-0005- 860-082-0085 and more specifically detailed in 860-082-0060 (6) (a)-(i).
3. The scope of the Interconnection Feasibility Study shall be subject to the assumptions set in the rule and the details supplied by the Applicant in Attachment 1 to this agreement form.
4. The Interconnection Feasibility Study shall be based on the technical information provided by the Applicant in their Application, as may be modified as the result of the Scoping Meeting. The Public Utility reserves the right to request additional technical information from the Interconnection Customer as may reasonably become necessary consistent with Good Utility Practice during the course of the Interconnection Feasibility Study. If, in the course of the Study, the Applicant finds it necessary to modify the Application, the time to



complete the Interconnection Feasibility Study may be extended by mutual agreement of the Parties.

5. In performing the study, the Public Utility will rely, to the extent reasonably practicable, on existing studies of recent vintage. The Applicant will not be charged for such existing studies. However, the Applicant agrees to pay, consistent with OAR 860-082-0035 for modifications to existing studies that are reasonably necessary to perform the Interconnection Feasibility Study.

6. The Interconnection Feasibility Study report shall provide the following information:

6.1 An identification of the potential Adverse system impacts on the utility's transmission and/or distribution system or any other affected system.

6.2 Preliminary identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection,

6.3 Preliminary identification of any thermal overload or voltage limit violations resulting from the interconnection,

6.4 Preliminary identification of grounding requirements and electric system protection, and

6.5 Preliminary description and non-binding estimated cost of facilities required to interconnect the Small Generating Facility to the Public Utility's T&D System and to address the identified short circuit and power flow issues.

7. As required by OAR 860-082-0060(6)(a), Attachment 2 to this agreement provides a scope for the Interconnection Feasibility Study, a reasonable schedule for completion of the study, and a good-faith, non-binding estimate of the cost to perform the Interconnection Feasibility Study. The Interconnection Feasibility Study shall be completed and the results shall be transmitted to the Interconnection Customer within thirty Business Days after this agreement is signed by the Parties unless otherwise agreed to as part of this Agreement. Attachment 2 is incorporated as part of this Agreement.

8. Study fees will be based on actual costs in accordance with the provisions of 860-082-0035.

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:

Idaho Power Company

Signed _____



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Name (Printed):

_____ Title _____

[Insert name of Applicant]

Signed _____

Name (Printed):

_____ Title _____



Attachment 1: 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 Application and agreed upon in the Scoping Meeting held on _____:

1. Designation of Point of Interconnection and configuration to be studied.

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

3. Other Assumptions.

Note: 1 and 2 are to be provided by the Applicant. Any other assumptions (3) are to be provided by the Applicant or the Public Utility.



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Attachment 2

Interconnection Feasibility Study Agreement

Detailed Scope, Schedule and Cost Estimate for Feasibility Study provided by Public Utility.



Interconnection System Impact Study Form Agreement

This agreement is made and entered into this _____ day of _____ by _____ and _____ between _____, a _____ organized and existing under the laws of the State of _____, (“Applicant,”) and Idaho Power Company, a corporation existing under the laws of the State of Idaho, (“Public Utility”). Applicant and Public Utility each may be referred to as a “Party, ” or collectively as the “Parties.”

Recitals:

Whereas, The Applicant is proposing to develop a Small Generating Facility or adding generating capacity to an existing Small Generating Facility consistent with the Application completed on _____ and;

Whereas, The Applicant desires to interconnect the Small Generating Facility with the Public Utility’s T&D System;

Whereas, The Public Utility has completed an Interconnection Feasibility Study and provided the results of said study to the Applicant (This recital to be omitted if the Parties have agreed to forego the Interconnection Feasibility Study.);

Whereas, The Applicant has requested the Public Utility perform an Interconnection System Impact Study to assess the impact of interconnecting the Small Generating Facility to the Public Utility’s T&D System;

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

1. When used in this agreement, with initial capitalization, the terms specified shall have the meanings given in OAR 860-082-0005 through 860-082-0085.
2. Applicant elects and Public Utility shall cause to be performed an Interconnection System Impact Study consistent with OAR 860-082-0035.
3. The scope of the Interconnection System Impact Study shall be subject to the assumptions set forth below in Attachment 1 to this agreement.
4. The Interconnection System Impact Study will be based upon the results of the Interconnection Feasibility Study and the technical information provided by Applicant in the Application. The Public Utility reserves the right to request additional technical information from Interconnection Customer as may reasonably become necessary consistent with Good Utility Practice during the course of the Interconnection System Impact Study. If the Applicant modifies its designated Point of Interconnection, Application, or the technical information provided therein is modified, the time to complete the Interconnection System



Impact Study may be extended.

5. The Interconnection System Impact Study report shall identify and detail the impacts on the public utility's transmission or distribution system or on an affected system that would result from the interconnection of the small generator facility if no modifications to the small generator facility or system upgrades were made as further detailed in OAR 860-082-0060(7)(a)-(l) and shall include the following information:

5.1 Identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection,

5.2 Identification of any thermal overload or voltage limit violations resulting from the interconnection,

5.3 Identification of any instability or inadequately damped response to system disturbances resulting from the interconnection and

5.4 Description and good faith non-binding, estimated cost of facilities required to interconnect the Generating Facility to Public Utility's T&D System and to address the identified short circuit, instability, and power flow issues.

6. As required by OAR 860-082-0060(7)(a), Attachment 2 to this agreement provides a detail of the scope for the Interconnection System Impacts Study, a reasonable schedule for completion of the study, and a good-faith, non-binding estimate of the cost to perform the Interconnection System Impacts Study. The Interconnection System Impact Study shall be completed and the results transmitted to the Applicant within 30 Calendar Days after this Agreement is signed by the Parties unless otherwise agreed to as part of this agreement. Attachment 2 shall be incorporated as part of this Agreement.

7. The Public Utility may require a study deposit as prescribed 860-082-0035 of the Rule.

8. Study fees are described in OAR 860-082-0035 of the Rule and will be based on actual costs.

9. Cost responsibility is described in OAR 860-082-0035 of the rule.

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:

Idaho Power Company

Signed _____



Name (Printed): _____ Title _____

[Insert name of Interconnection Customer]

Signed _____

Name (Printed): _____ Title _____



Attachment 1: Interconnection System Impact Study Agreement
Assumptions Used in Conducting the Interconnection System Impact Study

The Interconnection System Impact Study shall be based upon the results of the Interconnection Feasibility Study, subject to any modifications in accordance with OAR 860-082-0005 through 860-082-0085, and the following assumptions:

1. Designation of Point of Interconnection and configuration to be studied.

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

3. Other Assumptions.

Note: 1 and 2 are to be provided by the Interconnection Customer. Any other assumptions (3) are to be provided by the Applicant or the Public Utility.



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Attachment 2
Interconnection System Impact Study Agreement

Detailed Scope, Reasonable Schedule and Non-binding, Good-faith Cost Estimate for System Impact Study



Interconnection Facilities Study Form Agreement

This agreement is made and entered into this _____ day of _____ by and between _____, a _____ organized and existing under the laws of the State of _____, (“Applicant,”) and Idaho Power Company existing under the laws of the State of Idaho, (“Public Utility”). Applicant and Public Utility each may be referred to as a “Party,” or collectively as the “Parties.”

Recitals:

Whereas, Applicant is proposing to develop a Small Generating Facility or adding generating capacity to an existing Small Generating Facility consistent with the Application completed by the Applicant on _____; and

Whereas, The Applicant desires to interconnect the Small Generating Facility with the Public Utility’s T&D System;

Whereas, The Public Utility has completed an Interconnection System Impact Study and provided the results of said study to the Applicant; and

Whereas, The Applicant has requested the Public Utility 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 Small Generating Facility to the Public Utility’s T&D System.

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

1. When used in this agreement, with initial capitalization, the terms specified shall have the meanings given in the PUC’s rules found at OAR 860-082-0005 through 860-082-0085.
2. Interconnection Customer and Public Utility shall cause an Interconnection Facilities Study consistent with OAR 860-082-0005 through 860-082-0085.
3. The Applicant will provide the data requested in Attachment 1 of this Form. The scope of the Interconnection Facilities Study shall be subject to this data.
4. The Interconnection Facilities Study report shall provide:



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4.1 A description of the Interconnection Equipment, Interconnection Facilities and System Upgrades required for interconnecting the Small Generator Facility to the Public Utility's T&D System,

4.2 A good-faith, non-binding, estimate of the Interconnection Equipment, Interconnection Facilities, and System Upgrades costs to interconnect the Small Generator Facility to the Public Utility's T&D System, and

4.3 A reasonable schedule for the procurement, construction, installation and testing of the Interconnection Facilities, and System Upgrades required to interconnect the Small Generator Facility to the Public Utility's T&D System.

5. The Public Utility will require a study deposit as described in OAR 860-082-0035(5)(a).

6. The Public Utility will provide an Interconnection Facility Study scope, schedule and good-faith, non-binding cost estimate as Attachment 2 of this form. In cases where no Upgrades are required, the Interconnection Facilities Study shall be completed and the results will be transmitted to the Applicant within thirty Calendar Days after this agreement is signed by the Parties.

7. Study fees will be detailed in OAR 860-082-0035 and will be based on actual costs.

8. The Cost Responsibility for Studies is detailed in OAR 860-082-0035.

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:

Idaho Power Company

Signed _____

Name (Printed): _____ Title _____

[Insert name of the Applicant]

Signed _____

Name (Printed): _____ Title _____



**Attachment 1 to the Interconnection Facilities Study Agreement
Data To Be Provided by Applicant 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, distribution circuits, etc. 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.

One set of metering is required for each generation connection to the new ring bus or existing Public Utility station.

Number of generation connections: _____

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 the one-line diagram).

What type of control system or PLC will be located at the Generating Facility?
_____.

What protocol does the control system or PLC use? _____
.

Please provide a 7.5-minute quadrangle map of the site. Indicate the plant, station, distribution line, and property lines.

Physical dimensions of the proposed interconnection station:
_____.

Bus length from generation to interconnection station:
_____.

Line length from interconnection station to the Public Utility's T&D System:



_____.

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

_____.

Number of third party easements required for distribution lines*:

_____.*

To be completed in coordination with Public Utility

Is the Small Generating Facility located in Public Utility's service area?

Facility Location: _____

Yes _____ No _____

If No, please provide name of local provider:

Please provide the following proposed schedule dates:

Begin Construction Date: _____

Generator step-up transformers receive back feed power Date:

Generation Testing Date: _____

Commercial Operation Date: _____



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Attachment 2

Interconnection Facilities Study Agreement

Detailed Scope, Schedule and Cost Estimate for Facility Study provided by Public Utility.



Small Generator Facility Interconnection Certificate of Completion Form¹

Applicant Information

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

E-Mail Address/ Fax number: _____

Installer

Check if owner-installed

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

E-Mail Address/ Fax number: _____

Final Electric Inspection and Applicant Signature

The Small Generator Facility is complete and has been approved by the local electric inspector having jurisdiction. A signed copy of the electric inspector's form indicating final approval is attached. The Interconnection Customer acknowledges that the Small Generator Facility is not ready for operation until receipt of the final acceptance approval by the-Public Utility as provided below.

Applicant Signature: _____ Date: _____

Printed Name: _____

Check if copy of signed electric inspection form is attached

Acceptance and Final Approval of interconnection installation(for Public Utility use only)

The interconnection installation is approved and the Small Generator Facility is approved for operation under the terms and conditions of the PUC rules found in OAR 860, Division 082 and a duly signed and executed Interconnection Agreement:

Public Utility waives Witness Test? (Initial) Yes (_____) No (_____) _____

If not waived, date of successful Witness Test: _____ Passed: (Initial) (_____) _____

Public Utility Signature: _____ Date: _____

Printed Name: _____ Title: _____

¹ The interconnection shall not be deemed complete and ready for operation until the Applicant has complete this form, secured the necessary attachments and signatures and returned a copy to the Public Utility at the Public Utility's designated address.



**Interconnection Equipment As Built Specifications,
Initial Settings and
Operating Requirements ***

Address of Facility

Interconnection

Customer: _____

Facility _____ Operator _____ (if _____ different _____ than
above): _____

Facility Location/ Name: _____ Phone #: _____

Street Address: _____

City: _____ State: _____ Zip Code: _____

Revision Date: _____

Energy Production Equipment/Inverter Information

Synchronous Induction Inverter Other _____

Electric Nameplate Rating: _____ kW _____ kVA

Rated Voltage: _____ Volts

Rated Current: _____ Amps

Phases: Single Three-Phase

System Type Tested (Total System): Yes No; attach product literature

For Synchronous Machines

Manufacturer: _____

Model No.: _____ Version No.: _____

Submit copies of the Saturation Curve and the Vee Curve Salient Non-Salient

Field Amperes: _____ at rated generator voltage and current and _____%
PF over-excited

Type of Exciter: _____

Output Power of Exciter: _____

Type of Voltage Regulator: _____

Locked Rotor Current: _____ Amps

Synchronous Speed: _____ RPM

Winding Connection: _____

Min. Operating Freq./Time: _____

Generator Connection: Delta Wye Wye Grounded
Direct-axis Synchronous Reactance (Xd) _____ ohms
Direct-axis Transient Reactance: (X'd) _____ ohms
Direct-axis Sub-transient Reactance: (X''d) _____ ohms

For Induction Machines

Manufacturer: _____
Model No.: _____ Version No.: _____
Locked Rotor Current: _____ Amps
Rotor Resistance: (Rr) _____ ohms Exciting Current: _____ Amps
Rotor Reactance: (Xr) _____ ohms Reactive Power Required: _____
Magnetizing Reactance: (Xm) _____ ohms _____ VARs (No Load)
Stator Resistance: (Rs) _____ ohms _____ VARs (Full Load)
Stator Reactance: (Xs) _____ ohms
Short Circuit Reactance: (X''d) _____ ohms
Electric Nameplate Capacity rating: (kVA) _____

For Inverter Based Facilities

Manufacturer: _____ Model: _____
Type: Forced Commutated Line Commutated
Electric Nameplate Capacity Rated Output: _____ Amps _____ Volts
_____ kW
Efficiency: _____ % Power Factor: _____ %
Is Inverter Lab Tested? Yes (attach product literature) No

DC Source / Prime Mover:

Solar Wind Hydro Other _____
Electric Nameplate Capacity Rating: _____ kW Rating: _____ kVA
Rated Voltage: _____ Volts
Open Circuit Voltage (If applicable): _____ Volts
Rated Current: _____ Amps
Short Circuit Current (If applicable): _____ Amps

Other Facility Information

One Line Diagram attached: Yes No

Plot Plan attached: Yes No

Isolation Device Type/ Location: _____

Grounding Configuration: _____

Initial Commissioning Date: _____

Switchgear/ Circuit Interruption Devices

Switchgear type and control: (used to bring generator on line)

Circuit Breakers: Closed-transition Open –transition Auto Transfer
Switch

Nameplate: _____

Metering

Location: _____

Metering Issues: _____

Monitoring Provisions: Yes No

Monitoring Values: _____

Monitoring Issues: _____

Telemetry

Telemetry Requirements: _____

System Configuration: _____

Data Scan Rate: _____

Data Point List: _____

Telemetry Data Delivery Location: _____

Initial Set points at Point of Interconnection

Voltage: _____ kVAr: _____

Power factor: _____

Other: _____

Other: _____

Trip Re-start Protocol

Reclosing Practice: _____

Hold out time: _____

Ramp Rate: _____

Notification required: Yes No

Operations and Maintenance Schedule

Operating Hours: _____ Availability (%): _____

Seasonal Effect: _____

Routine and Annual Maintenance Schedule: _____

Interconnection Customer/Applicant Signature

Name: _____

Position: _____

Date: _____

*Complete only those sections that apply. Initial operating set points and 'as built' equipment data is to be recorded on or about the time of the Witness Test. It shall be submitted by the applicant along with the Cof C at the completion of the installation and interconnection and will remain part of the permanent interconnection record described in OAR 860-082-0065. Parties may not deviate from initial settings and agreed upon operating parameters except as permitted by the Rule without written authorization of the Public Utility. The Interconnection Customer will furnish updated information to the Public Utility any time a special operating requirement initial set point or the Interconnection Equipment is materially changed.

**Interconnection Agreement for Small Generator Facility
Tier 1, Tier 2, Tier 3 or Tier 4 Interconnection**
(Small Generator Facilities with Electric Nameplate Capacities or 10 MW
or smaller)

This Interconnection Agreement (sometimes also referred to as “Agreement”) is made and entered into this ___ day of _____ by and between _____, a _____ organized and existing under the laws of the State of _____, (“Interconnection Customer”) and Idaho Power Public Utility, a corporation existing under the laws of the State of Idaho, (“Public Utility”). The Interconnection Customer and Public Utility each may be referred to as a “Party,” or collectively as the “Parties.”

Recitals:

Whereas, the Interconnection Customer is proposing to develop a Small Generator Facility, or to add generating capacity to an existing Small Generator Facility, consistent with the Application completed on _____;

Whereas, the Interconnection Customer desires to interconnect the Small Generator Facility with Public Utility’s Transmission and Distribution System (“T&D System”); and

Whereas, the interconnection of the Small Generator Facility and the Public Utility’s T&D System is subject to the jurisdiction of the Public Utility Commission of Oregon (“OPUC” or “Commission”) and governed by OAR 860, Division 082 (“Rule”).

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

Article 1. Scope and Limitations of Agreement

1.1 Scope

The Agreement establishes standard terms and conditions approved by the Public Utility Commission of Oregon (“OPUC” or “Commission”) under which the Small Generator Facility with a Name Plate Capacity of 10 MW or less will interconnect to, and operate in Parallel with, the Public Utility’s T&D System. Additions, deletions or changes to the standard terms and conditions of an Interconnection Agreement will not be permitted unless they are mutually agreed to by the Parties and/or ordered or approved by the Commission as required by the Rule. Terms with initial capitalization when used in this Agreement, shall have the meanings given in the Rule.

1.2 Power Purchase

The Agreement does not constitute an agreement to purchase, transmit, or deliver the Interconnection Customer's power nor does it constitute an electric service agreement.

1.3 Other Agreements

Nothing in this Agreement is intended to affect any other agreement between the Public Utility and the Interconnection Customer or another Interconnection Customer. However, in the event that the provisions of the Agreement conflict with the provisions of other Public Utility tariffs, the Public Utility tariff shall control.

1.4 Responsibilities of the Parties

- 1.4.1 The Parties shall perform all obligations of the Agreement in accordance with all applicable laws.
- 1.4.2 The Interconnection Customer will construct, own, operate, and maintain its Small Generator Facility in accordance with the Agreement, IEEE Standard 1547 (2003 ed), the National Electrical Code (2005 ed) and applicable standards required by the Commission.
- 1.4.3 Each Party shall be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the Point of Interconnection. Each Party shall provide Interconnection Facilities that adequately protect the other Parties' facilities, personnel, and other persons from damage and injury. The allocation of responsibility for the design, installation, operation, maintenance and ownership of Interconnection Facilities is prescribed in the Rule.

1.5 Parallel Operation and Maintenance Obligations

Once the Small Generator Facility has been authorized to commence Parallel Operation by execution of the Interconnection Agreement, the Interconnection Customer will abide by all written provisions for operating and maintenance as required by the Rule and detailed by the Public Utility in Form 7, title "Interconnection Equipment As Built Specifications, Initial Settings and Operating Requirements" a copy of which is provided on the Commission's website.

1.6 Metering & Monitoring

The Interconnection Customer will be responsible for metering and monitoring as required by OAR 860-082-0070.

1.7 Power Quality

The Interconnection Customer will design its Small Generator Facility to maintain a composite power delivery at continuous rated power output at the Point of Interconnection that meets the requirements set forth in IEEE 1547. The Public Utility may, in some circumstances, also require Interconnection Customers to follow voltage or VAR schedules used by similarly situated, comparable

generators in the control area. Any special operating requirements will be detailed in Form 4 provided on the Commission website and completed by the Public Utility as required by the Rule. Under no circumstances shall these additional requirements for voltage or reactive power support exceed the normal operating capabilities of the Small Generator Facility.

Article 2. Inspection, Testing, Authorization, and Right of Access

2.1 Equipment Testing and Inspection

The Interconnection Customer will test and inspect its Small Generator Facility and Interconnection Facilities prior to interconnection in accordance with IEEE 1547 Standards as provided for in the Rule. The Interconnection will not be final until the Witness Test and Certificate of Completion provisions in the Rule have been satisfied.

To the extent that the Interconnection Customer decides to conduct interim testing of the Small Generator Facility prior to the Witness Test, it may request that the Public Utility observe these tests. If the Public Utility agrees to send qualified personnel to observe any interim testing proposed by the Interconnection Customer, the Interconnection Customer shall pay or reimburse the Public Utility for its cost to participate in the interim testing. If the Interconnection Customer conducts interim testing and such testing is observed by the Public Utility and the results of such interim testing are deemed acceptable by the Public Utility (hereinafter a "Public Utility-approved interim test"), then the Interconnection Customer may request that such Public Utility-approved interim test be deleted from the final Witness Testing. If the Public Utility elects to repeat any Public Utility-approved interim test as part of the final Witness Test, the Public Utility will bear its own expenses associated with participation in the repeated Public Utility-approved interim test.

2.2 Right of Access:

As provided in OAR 860-082-0020, the Public Utility will have access to the Interconnection Customer's premises for any reasonable purpose in connection with the Interconnection Application and any Interconnection Agreement that is entered in to pursuant to this Rule or if necessary to meet the legal obligation to provide service to its customers. Access will be requested at reasonable hours and upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition.

Article 3. Effective Date, Term, Termination, and Disconnection

3.1 Effective Date

The Agreement shall become effective upon execution by the Parties.

3.2 Term of Agreement

The Agreement will be effective on the Effective Date and will remain in effect for a period of twenty (20) years or the life of the Power Purchase agreement, whichever is shorter or a period mutually agreed to by Parties, unless terminated earlier by the default or voluntary termination by the Interconnection Customer or by action of the Commission.

3.3 Termination

No termination will become effective until the Parties have complied with any applicable requirements for termination contained in OAR 860-082-0075 or this Agreement.

3.3.1 The Interconnection Customer may terminate this Agreement at any time by giving the Public Utility twenty (20) Business Days written notice.

3.3.2 Either Party may terminate this Agreement after default pursuant to Article 5.6 of this Agreement.

3.3.3 The Commission may order termination of this Agreement.

3.3.4 Upon termination of this Agreement, the Small Generator Facility will be disconnected from the Public Utility's T&D System at the Interconnection Customer's expense. The termination of this Agreement will not relieve either Party of its liabilities and obligations, owed or continuing at the time of the termination.

3.3.4 The provisions of this Article shall survive termination or expiration of this Agreement.

3.4 Temporary Disconnection

The Public Utility or Interconnection Customer may temporarily disconnect the Small Generator Facility from its T&D System for so long as reasonably necessary, as provided in OAR 860-082-0075 of the Rule, in the event one or more of the following conditions or events occurs:

3.4.1 Under emergency conditions, the Public Utility or the Interconnection Customer may, without notice to the Interconnection Customer, immediately suspend interconnection service and temporarily disconnect the Small Generator Facility. The Public Utility shall notify the Interconnection Customer promptly when it becomes aware of an emergency condition that may reasonably be expected to affect the Small Generator Facility operation. The Interconnection Customer will notify the Public Utility promptly when it becomes aware of an emergency condition that may reasonably be expected to affect the Public Utility's T&D System. To the extent information is known, the notification shall describe the emergency condition, the

extent of the damage or deficiency, the expected effect on the operation of both Parties' facilities and operations, its anticipated duration, and the necessary corrective action.

- 3.4.2 For routine Maintenance, Parties will make reasonable efforts to provide five Business Days notice prior to interruption caused by routine maintenance or construction and repair to the Small Generator Facility or Public Utility's T&D system and shall use reasonable efforts to coordinate such interruption.
- 3.4.3 The Public Utility shall make reasonable efforts to provide the Interconnection Customer with prior notice of forced outages to effect immediate repairs to the T&D System. If prior notice is not given, the Public Utility shall, upon request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection.
- 3.4.4 For disruption or deterioration of service, where the Public Utility determines that operation of the Small Generator Facility will likely cause disruption or deterioration of service to other customers served from the same electric system, or if operating the Small Generator Facility could cause damage to the Public Utility's T&D System, the Public Utility may disconnect the Small Generator Facility. The Public Utility will provide the Interconnection Customer upon request all supporting documentation used to reach the decision to disconnect. The Public Utility may disconnect the Small Generator Facility if, after receipt of the notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time which shall be at least five Business Days from the date the Interconnection Customer receives the Public Utility's written notice supporting the decision to disconnect, unless emergency conditions exist, in which case the provisions of 3.4.1 of the agreement apply.
- 3.4.5 If the Interconnection Customer makes any change other than Minor Equipment Modifications without prior written authorization of the Public Utility, the Public Utility will have the right to temporarily disconnect the Small Generator Facility.

3.5 Restoration of interconnection:

The Parties shall cooperate with each other to restore the Small Generator Facility, Interconnection Facilities, and Public Utility's T&D System to their normal operating state as soon as reasonably practicable following any disconnection pursuant to this section.

Article 4. Cost Responsibility and Billing:

The Interconnection Customer is responsible for the cost of all facilities, equipment, modifications and upgrades needed to facilitate the interconnection of the Small Generator Facility to the Public Utility's T&D System..

4.1 Minor T&D System Modifications:

Modifications to the existing T&D Systems identified by the Public Utility under a Tier 2 or Tier 3 review, such as changing meters, fuses or relay settings, are deemed Minor Modifications. It is the Public Utility's sole discretion to decide what constitutes a Minor Modification. The Interconnection Customer will bear the costs of making such Minor Modifications as may be necessary to gain approval of an Application.

4.2 Interconnection Facilities:

The Interconnection Customer is responsible for the cost of the Interconnection Facilities identified by the Public Utility in the interconnection studies and reviews.

4.3 Interconnection Equipment: The Interconnection Customer is responsible for all reasonable expenses, including overheads, associated with owning, operating, maintaining, repairing, and replacing its Interconnection Equipment.

4.4 System Upgrades:

The Public Utility will design, procure, construct, install, and own any System Upgrades. The actual cost of the System Upgrades, including overheads, will be directly assigned to the Interconnection Customer. An Interconnection Customer may be entitled to financial compensation from other Public Utility Interconnection Customers who, in the future, benefit from the System Upgrades paid for by the Interconnection Customer. Such compensation will be governed by separate rules promulgated by the Commission or by terms of a tariff filed and approved by the Commission. , Such compensation will only be available to the extent provided for in the separate rules or tariff.

4.5 Adverse System Impact:

The Public Utility is responsible for identifying Adverse System Impacts on any Affected Systems and for determining what mitigation activities or upgrades may be required to accommodate a Small Generator Facility. The actual cost of any actions taken to address the Adverse System Impacts, including overheads, shall be directly assigned to the Interconnection Customer. The Interconnection Customer may be entitled to financial compensation from other Public Utilities or other Interconnection Customers who, in the future, utilize the upgrades paid for by the Interconnection Customer.. Such compensation will only be



available to the extent provided for in the separate rules, Commission order or tariff.

4.6 Deposit and Billings:

The Interconnection Customer agrees to pay to the Public Utility a deposit toward the cost to construct and install any required Interconnection Facilities and/or System Upgrades. The amount of the deposit shall be (select one of the following):

The Parties have not agreed to a schedule of progress payments and the Interconnection Customer shall pay a deposit equal to 100 percent of the estimated cost of the Interconnection Facilities and System Upgrades – the amount of the deposit shall be \$_____; or

The Parties have agreed to progress payments and final payment under the schedule of payments attached to this Agreement; the Interconnection Customer shall pay a deposit equal to the lesser of (a) 25 percent of the estimated cost of the Interconnection Facilities and System Upgrades, or (b) \$10,000 – the amount of the deposit shall be \$_____.

If the actual costs of Interconnection Facilities and/or System Upgrades are different than the deposit amounts and/or progress and final payments provided for above, then the Interconnection Customer shall pay the Public Utility any balance owing or the Public Utility shall refund any excess deposit or progress payment within 20 days of the date actual costs are determined

Article 5. Assignment, Liability, Indemnity, Force Majeure, Consequential Damages, and Default

5.1 Assignment

The Interconnection Agreement may be assigned by either Party upon fifteen (15) Business Days prior written notice. Except as provided in Articles 5.1.1 and 5.1.2, said assignment shall only be valid upon the prior written consent of the non-assigning Party, which consent shall not be unreasonably withheld.

5.1.1 Either Party may assign the Agreement without the consent of the other Party to any affiliate (which shall include a merger of the Party with another entity), of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement;

5.1.2 The Interconnection Customer shall have the right to assign the Agreement, without the consent of the Public Utility, for collateral security purposes to aid in providing financing for

the Small Generator Facility. For Small Generator systems that are integrated into a building facility, the sale of the building or property will result in an automatic transfer of this agreement to the new owner who shall be responsible for complying with the terms and conditions of this Agreement.

- 5.1.3 Any attempted assignment that violates this Article is void and ineffective. Assignment shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. An assignee is responsible for meeting the same obligations as the Interconnection Customer.

5.2 Limitation of Liability and Consequential Damages

A Party is liable for any loss, cost claim, injury, or expense including reasonable attorney's fees related to or arising from any act or omission in its performance of the provisions of an Interconnection Agreement entered into pursuant to the Rule except as provided for in ORS 757.300(4)(c). Neither Party will seek redress from the other Party in an amount greater than the amount of direct damage actually incurred.

5.3 Indemnity

- 5.3.1 Liability under this Article 5.3 is exempt from the general limitations on liability found in Article 5.2.
- 5.3.2 The Parties shall at all times indemnify, defend, and hold the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or failure to meet its obligations under this Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.
- 5.3.3 If an indemnified person is entitled to indemnification under this Article as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this Article, to assume the defense of such a claim, such indemnified person may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.
- 5.3.4 If an indemnifying party is obligated to indemnify and hold any indemnified person harmless under this Article, the amount owing to the indemnified person shall be the amount of such indemnified person's actual loss, net of any insurance or other recovery.

- 5.3.5 Promptly after receipt by an indemnified person of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in this Article may apply, the indemnified person shall notify the indemnifying party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying party.
- 5.3.6 The indemnifying Party shall have the right to assume the defense thereof with counsel designated by such indemnifying Party and reasonably satisfactory to the indemnified person. If the defendants in any such action include one or more indemnified persons and the indemnifying Party and if the indemnified person reasonably concludes that there may be legal defenses available to it and/or other indemnified persons which are different from or additional to those available to the indemnifying Party, the indemnified person shall have the right to select separate counsel to assert such legal defenses and to otherwise participate in the defense of such action on its own behalf. In such instances, the indemnifying Party shall only be required to pay the fees and expenses of one additional attorney to represent an indemnified person or indemnified persons having such differing or additional legal defenses.
- 5.3.7 The indemnified person shall be entitled, at its expense, to participate in any such action, suit or proceeding, the defense of which has been assumed by the indemnifying Party. Notwithstanding the foregoing, the indemnifying Party (i) shall not be entitled to assume and control the defense of any such action, suit or proceedings if and to the extent that, in the opinion of the indemnified person and its counsel, such action, suit or proceeding involves the potential imposition of criminal liability on the indemnified person, or there exists a conflict or adversity of interest between the indemnified person and the indemnifying Party, in such event the indemnifying Party shall pay the reasonable expenses of the indemnified person, and (ii) shall not settle or consent to the entry of any judgment in any action, suit or proceeding without the consent of the indemnified person, which shall not be reasonably withheld, conditioned or delayed.

5.4 Consequential Damages

Neither Party shall be liable to the other Party, under any provision of the Agreement, for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to the other Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

5.5 Force Majeure

5.5.1 As used in this Agreement, a Force Majeure Event shall mean “any act of God, labor disturbance, act of the public enemy, war, acts of terrorism, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment through no direct, indirect, or contributory act of a Party, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party’s control. A Force Majeure Event does not include an act of negligence or intentional wrongdoing.”

5.5.2 If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, the Party affected by the Force Majeure Event (Affected Party) shall promptly notify the other Party of the existence of the Force Majeure Event. The notification must specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the Affected Party is taking to mitigate the effects of the event on its performance, and if the initial notification was verbal, it should be promptly followed up with a written notification. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Force Majeure Event until the event ends the Affected Party will be entitled to suspend or modify its performance of obligations under this Agreement (other than the obligation to make payments) only to the extent that the effect of the Force Majeure Event cannot be reasonably mitigated. The Affected Party will use reasonable efforts to resume its performance as soon as possible. The Parties shall immediately report to the Commission should a Force Majeure Event prevent performance of an action required by Rule that the Rule does not permit the Parties to mutually waive.

5.6 Default

- 5.6.1 No default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of a Force Majeure Event as defined in this Agreement, or the result of an act or omission of the other Party. Upon a default, the non-defaulting Party shall give written notice of such default to the defaulting Party. Except as provided in Article 5.6.2, the defaulting Party shall have sixty (60) Calendar Days from receipt of the default notice within which to cure such default; provided however, if such default is not capable of cure within 60 Calendar Days, the defaulting Party shall commence such cure within twenty (20) Calendar Days after notice and continuously and diligently complete such cure within six months from receipt of the default notice; and, if cured within such time, the default specified in such notice shall cease to exist.
- 5.6.2 If a default is not cured as provided for in this Article, or if a default is not capable of being cured within the period provided for herein, the non-defaulting Party shall have the right to terminate the Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates the Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. Alternately, the non-defaulting Party shall have the right to seek dispute resolution with the Commission in lieu of default. The provisions of this Article will survive termination of the Agreement.

Article 6. Insurance

Pursuant to OPUC Order No. 05-584, pages 48 and 49, the Public Utility may not require the Interconnection Customer to maintain general liability insurance for a Small Generator Facility with an Electric Nameplate Capacity of 200 KW or less. All other Interconnection Customers must obtain a prudent amount of general liability insurance to protect any person who may be affected by their facility and its operation.

- 6.1 Pursuant to the Rule adopted by the Commission, the Public Utility may not require the Interconnection Customer to maintain general liability insurance in relation to the interconnection of a Small Generator Facility with an Electric Nameplate Capacity of 200 KW or less. With regard to the interconnection of a Small Generator Facility with an Electric Nameplate Capacity equal to or less than 10 MW but in excess of 200 KW, the Interconnection Customer shall, at its own expense, maintain in force throughout the period of this Agreement general liability insurance sufficient to protect any

person (including the Public Utility) who may be affected by the Interconnection Customer's Small Generation Facility and its operation and such insurance shall be sufficient to satisfy the Interconnection Customer's indemnification responsibilities under Article 5.3 of this Agreement.

- 6.2** Within ten (10) days following execution of this Agreement, and as soon as practicable after the end of each fiscal year or at the renewal of the insurance policy and in any event within ninety (90) days thereafter, the Interconnection Customer shall provide the Public Utility with certification of all insurance required in this Agreement, executed by each insurer or by an authorized representative of each insurer.
- 6.3** All insurance required by this Article 6 shall name the Public, its parent, associated and Affiliate companies and their respective directors, officers, agents, servants and employees ("Other Party Group") as additional insured. All policies shall contain provisions whereby the insurers waive all rights of subrogation against the Other Party Group and provide thirty (30) Calendar Days advance written notice to the Other Party Group prior to anniversary date of cancellation or any material change in coverage or condition. The Interconnection Customer's insurance shall contain provisions that specify that the policies are primary and shall apply to such extent without consideration for other policies separately carried and shall state that each insured is provided coverage as though a separate policy had been issued to each, except the insurer's liability shall not be increased beyond the amount for which the insurer would have been liable had only one insured been covered. The insurance policies, if written on a Claims First Made Basis, shall be maintained in full force and effect for two (2) years after termination of this Agreement, which coverage may be in the form of tail coverage or extended reporting period coverage if agreed by the Parties.
- 6.4** The Parties agree to report to each other in writing as soon as practical all accidents or occurrences resulting in injuries to any person, including death, and any property damage arising out of this Agreement.
- 6.5** The requirements contained herein as to insurance are not intended to and shall not in any manner, limit or qualify the liabilities and obligations assumed by the Parties under this Agreement.

Article 7. Dispute Resolution

Parties will adhere to the dispute resolution provisions in OAR 860-082-0080.

Article 8. Miscellaneous

8.1 Governing Law, Regulatory Authority, and Rules

The validity, interpretation and enforcement of the Agreement and each of its provisions shall be governed by the laws of the State of Oregon, without regard to its conflicts of law principles. The Agreement is subject to all applicable laws. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, or regulations of a governmental authority.

8.2 Amendment

The Parties may mutually agree to amend the Agreement by a written instrument duly executed by both Parties in accordance with provisions of the Rule and applicable Commission Orders and provisions of the laws if the State of Oregon.

8.3 No Third-Party Beneficiaries

The Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.

8.4 Waiver

8.4.1 The failure of a Party to the Agreement to insist, on any occasion, upon strict performance of any provision of the Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

8.4.2 The Parties may agree to mutually waive a section of this Agreement so long as prior Commission approval of the waiver is not required by the Rule.

8.4.3 Any waiver at any time by either Party of its rights with respect to the Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of the Agreement. Any waiver of the Agreement shall, if requested, be provided in writing.

8.5 Entire Agreement

The Interconnection Agreement, including any supplementary Form attachments that may be necessary, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of the Agreement. There are no other agreements, representations, warranties, or covenants that

constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under the Agreement.

8.6 Multiple Counterparts

The Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

8.7 No Partnership

The Agreement will not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

8.8 Severability

If any provision or portion of the Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other governmental authority; (1) such portion or provision shall be deemed separate and independent; (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by such ruling; and (3) the remainder of the Agreement shall remain in full force and effect.

8.10 Subcontractors

Nothing in the Agreement shall prevent a Party from utilizing the services of any subcontractor, or designating a third party agent as one responsible for a specific obligation or act required in the Agreement (collectively subcontractors), as it deems appropriate to perform its obligations under the Agreement; provided, however, that each Party will require its subcontractors to comply with all applicable terms and conditions of the Agreement in providing such services and each Party will remain primarily liable to the other Party for the performance of such subcontractor.

8.10.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under the Agreement. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made. Any applicable obligation imposed by the Agreement upon the hiring Party shall be equally binding upon, and will be construed as having application to, any subcontractor of such Party.

8.10.2 The obligations under this Article will not be limited in any way by any limitation of subcontractor's insurance.

8.11 Reservation of Rights



Either Party will have the right to make a unilateral filing with the Commission to modify the Interconnection Agreement. This reservation of rights provision will includes but is not limited to modifications with respect to any rates terms and conditions, charges, classification of service, rule or regulation under tariff rates or any applicable State or Federal law or regulation. Each Party shall have the right to protest any such filing and to participate fully in any proceeding before the Commission in which such modifications may be considered.

Article 9. Notices and Records

9.1 General

Unless otherwise provided in the Agreement, any written notice, demand, or request required or authorized in connection with the Agreement shall be deemed properly given if delivered in person, delivered by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

9.2 Records

The utility will maintain a record of all Interconnection Agreements and related Form attachments for as long as the interconnection is in place as required by OAR 860-082-006. The Public Utility will provide a copy of these records to the Interconnection Customer or Interconnection Customer within 15 Business Days if a request is made in writing.

If to the Interconnection Customer:

Interconnection Customer: _____
Attention: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____ E-mail _____

If to Public Utility:

PUBLIC
UTILITY _____
Attention: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____ E-mail _____

9.3 Billing and Payment

Billings and payments shall be sent to the addresses set out below:
(complete if different than article 9.2 above)



If to the Interconnection Customer

Interconnection Customer: _____
Attention: _____
Address: _____
City: _____ State: _____ Zip: _____

If to Public Utility

PUBLIC UTILITY: _____
Attention: _____
Address: _____
City: _____ State: _____ Zip: _____

9.4 Designated Operating Representative

The Parties will designate operating representatives to conduct the communications which may be necessary or convenient for the administration of the operations provisions of the Agreement. This person will also serve as the point of contact with respect to operations and maintenance of the Party's facilities (complete if different than article 9.2 above)

**Interconnection Customer's
Operating
representative:** _____

Attention: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____ E-Mail _____

**Public Utility's
Operating Representative:** _____

Attention: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____

9.5 Changes to the Notice Information

Either Party may change this notice information by giving five Business Days written notice prior to the effective date of the change.



Article 10. Signatures

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

For Public Utility:

Name: _____

Title: _____

Date: _____

For the Interconnection Customer:

Name: _____

Title: _____

Date: _____



Attachment 1

Description and Costs of the Generation Facility, Interconnection Facilities and Metering Equipment

In this attachment the Interconnection Equipment Interconnection Facilities, and System Upgrades, are itemized and identified as being owned by the Interconnection Customer or the Public Utility.

Interconnection Details

Point of Interconnection

A drawing identifying the point of interconnection is included in the Single Line drawing as Attachment 2.

General Facility Description

Description	Ownership	Cost
Interconnection Equipment		
[Interconnection Customer to Provide]	Interconnection Customer	N/A
Interconnection Facilities		
	Public Utility	
	Public Utility	
	Public Utility	
	Public Utility	
	Public Utility	
	Public Utility	
Total		
System Upgrades		
	Public Utility	
	Public Utility	
	Public Utility	
Total		



Interconnection Agreement for Small Generator

Form 8
8-12-2009 rev.

Attachment 2
Interconnection Facility Electrical Diagram



Attachment 3

Milestones

Date	Milestone
	Design completion
	Construction completion
	Commissioning completion
	Commercial Operation

Public Utility's billing for its construction activities will be based upon actual expenditures.

Agreed to by:

For _____ the _____ Interconnection Customer
Date _____

For the Transmission Provider
Idaho Power Company, Delivery _____
Date _____



Attachment 4

Additional Operating Requirements for the Public Utility's Transmission System and Affected Systems Needed to Support the Interconnection Customer's Needs

The Public Utility shall also provide requirements that must be met by the Interconnection Customer prior to initiating parallel operation with the Public Utility System.

Security Arrangements Details

Infrastructure security of Transmission System equipment and operations and control hardware and software is essential to ensure day-to-day Transmission System reliability and operational security. All Transmission Providers, market participants, and Interconnection Customers interconnected to the Transmission System will to comply with the recommendations offered by the President's Critical Infrastructure Protection Board and, eventually, best practice recommendations from the electric reliability authority. All public utilities will be expected to meet basic standards for system infrastructure and operational security, including physical, operational, and cyber-security practices.

Reliability Management System

1. Definitions:

1.1 Member: Any party to the WECC Agreement.

1.2 Reliability Management System or RMS: The contractual reliability management program implemented through the WECC Reliability Criteria Agreement, Section 2 of Appendix H Under Idaho Power Company's Open Access Transmission Tariff ("OATT") FERC Electric Tariff Revised Volume No. 5.¹ and any similar contractual arrangement.

1.3 Western Interconnection: The area comprising those states and provinces, or portions thereof, in Western Canada, Northern Mexico and the Western United States in which Members of the WECC operate synchronously connected transmission systems.

1.4 WECC: The Western Electricity Coordinating Council or any successor entity.

1.5 WECC Agreement: The Western Electricity Coordinating Council Agreement dated March 20, 1967, as such may be amended from time to time.

1.6 WECC Reliability Criteria Agreement: The Western Electricity Coordinating Council Reliability Criteria Agreement among the WECC and

¹ Idaho Power Company applies the same technical standards to all generators connecting to the electrical system.



certain of its member Transmission Providers, as such may be amended from time to time.

1.7 WECC Staff: Those employees of the WECC, including personnel hired by the WECC on a contract basis, designated as responsible for the administration of the RMS.

2. Terms and Conditions

2.1 Purpose. In order to maintain the reliable operation of the transmission grid, the WECC Reliability Criteria Agreement sets forth reliability criteria adopted by the WECC to Interconnection Customer and Idaho Power Company ("Transmission Owner") shall be required to comply.

2.2 Compliance. Interconnection Customer shall comply with the requirements of the WECC Reliability Criteria Agreement, including the applicable WECC reliability criteria set forth in Section IV of Annex A thereof, and, in the event of failure to comply, agrees to be subject to any sanctions applicable to such failure assessed by WECC under its RMS so long as the Interconnection Customer is solely responsible for the resulting failure. Such sanctions shall be assessed pursuant to the procedures contained in the WECC Reliability Criteria Agreement. Each and all of the provisions of the WECC Reliability Criteria Agreement are hereby incorporated by reference into this Attachment 4 as though set forth fully herein, and Interconnection Customer shall for all purposes be considered a Participant, and shall be entitled to all of the rights and privileges and be subject to all of the obligations of a Participant, under and in connection with the WECC Reliability Criteria Agreement, including but not limited to the rights, privileges and obligations set forth in Sections 5, 6 and 10 of the WECC Reliability Criteria Agreement.

2.3 Payment and Sanctions. Interconnection Customer shall be responsible for reimbursing Transmission Owner for any monetary sanctions assessed by WECC against Transmission Owner due solely to the action or inaction of Interconnection Customer, pursuant to the WECC Reliability Criteria Agreement. Interconnection Customer also shall be responsible for payment of any monetary sanction due solely to the action or inaction of Interconnection Customer assessed against Interconnection Customer by WECC pursuant to the WECC Reliability Criteria Agreement. Any such payment shall be made pursuant to the procedures specified in the WECC Reliability Criteria Agreement.

2.4 Condition to Effectiveness of Agreement. This Agreement shall be void *ab initio* if Interconnection Customer is not afforded all rights and privileges to contest any purported violation or sanctions before WECC, NERC, the Federal Energy Regulatory Commission or any court of competent jurisdiction, which rights and privileges to contest any violation or sanction would be available to Transmission Owner if the act(s) constituting the purported violation had been taken by Transmission Owner.



2.5 Publication. Interconnection Customer consents to the release by the WECC of information related to Interconnection Customer's compliance with this Agreement only in accordance with the WECC Reliability Criteria Agreement; provided however that no information will be released until after the final resolution of any dispute or challenge to any alleged compliance violation.

2.6 Third Parties. Except for the rights and obligations between the WECC and Interconnection Customer specified in this Attachment 4, this Agreement creates contractual rights and obligations solely between the Parties. Nothing in this Agreement shall create, as between the Parties or with respect to the WECC: (a) any obligation or liability whatsoever (other than as expressly provided in this Agreement), or (b) any duty or standard of care whatsoever. In addition, nothing in this Agreement shall create any duty, liability, or standard of care whatsoever as to any other party. Except for the rights, as a third-party beneficiary under this Attachment 4, of the WECC against Interconnection Customer, no third party shall have any rights whatsoever with respect to enforcement of any provision of this Agreement. Transmission Owner and Interconnection Customer expressly intend that the WECC is a third-party beneficiary to this Attachment 4, and the WECC shall have the right to seek to enforce against Interconnection Customer any provision of this Attachment 4 provided that specific performance shall be the sole remedy available to the WECC pursuant to Attachment 4 of this Agreement, and Interconnection Customer shall not be liable to the WECC pursuant to this Agreement for damages of any kind whatsoever (other than the payment of sanctions to the WECC, if so construed), whether direct, compensatory, special, indirect, consequential, or punitive.

2.7 Reserved Rights. Nothing in the RMS or the WECC Reliability Criteria Agreement shall affect the right of Transmission Owner, subject to any necessary regulatory approval, to take such other measures to maintain reliability, including disconnection, that Transmission Owner may otherwise be entitled to take.

2.8 [Intentionally left blank]

2.9 Termination. Interconnection Customer may terminate its obligations pursuant to this Attachment 4 at any time for any reason upon written notice.

2.10 Mutual Agreement. This Attachment 4 may be amended or terminated at any time by mutual agreement of Transmission Owner and Interconnection Customer.

Attachment 5

Reactive Power Requirements

Public Utility will determine the reactive power required to be supplied by the Public Utility to the Interconnection Customer, based upon information provided by the Interconnection Customer. The Public Utility will specify the equipment required on the Public Utility's system to meet the Facility's reactive power requirements. These specifications will include but not be limited to equipment specifications, equipment location, Public Utility-provided equipment, Interconnection Customer provided equipment, and all costs associated with the equipment, design and installation of the Public Utility-provided equipment. The equipment specifications and requirements will become an integral part of this Agreement. The Public Utility-owned equipment will be maintained by the Public Utility, with total cost of purchase, installation, operation, and maintenance, including administrative cost to be reimbursed to the Public Utility by the Interconnection Customer. Payment of these costs will be in accordance with Schedule 72 and the total reactive power cost will be included in the calculation of the Monthly Operation and Maintenance Charges specified in Schedule 72.

Interconnection Requirements for a Wind Generating Plant

- A. Technical Standards Applicable to a Wind Generating Plant
- i. Low Voltage Ride-Through (LVRT) Capability

A wind generating plant shall be able to remain online during voltage disturbances up to the time periods and associated voltage levels set forth in the standard below.

All wind generating plants must meet the following requirements:

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 — 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to pre-fault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the transmission provider. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system. A wind generating plant shall remain interconnected during such a fault on the transmission

system for a voltage level as low as zero volts, as measured at the high voltage side of the wind GSU.

2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU.
3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static VAr Compensator) within the wind generating plant or by a combination of generator performance and additional equipment.
5. Existing individual generator units that are, or have been, interconnected to the network at the same location at the effective date of the Appendix G LVRT Standard are exempt from meeting the Appendix G LVRT Standard for the remaining life of the existing generation equipment. Existing individual generator units that are replaced are required to meet the Appendix G LVRT Standard.

ii. Power Factor Design Criteria (Reactive Power)

A wind generating plant shall maintain a power factor within the range of 0.95 leading to 0.95 lagging, measured at the Point of Interconnection as defined in this agreement, if the Transmission Provider's System Impact Study shows that such a requirement is necessary to ensure safety or reliability. The power factor range standard can be met by using, for example, power electronics designed to supply this level of reactive capability 606 (taking into account any limitations due to voltage level, real power output, etc.) or fixed and switched capacitors if agreed to by the Transmission Provider, or a combination of the two. The Interconnection Customer shall not disable power factor equipment while the wind plant is in operation. Wind plants shall also be able to provide sufficient dynamic voltage support in lieu of the power system stabilizer and automatic voltage regulation at the generator excitation system if the System Impact Study shows this to be required for system safety or reliability.

iii. Supervisory Control and Data Acquisition (SCADA) Capability

The wind plant shall provide SCADA capability to transmit data and receive instructions from the Transmission Provider to protect system reliability. The Transmission Provider and the wind plant Interconnection Customer shall determine what SCADA information is essential for the proposed wind plant, taking into account the size of the plant and its characteristics, location, and



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importance in maintaining generation resource adequacy and transmission system reliability in its area.



Attachment 6

Public Utility's Description of Upgrades Required to Integrate the Generation Facility and Best Estimate of Upgrade Costs

This Attachment describes Upgrades, including best work upgrades, and provides an itemized best estimate of the cost of the Upgrades.

Interconnection Customer Construction Responsibility and Transfer of Ownership

1. Interconnection Facilities:

Interconnection Facilities

Description	Owner	Estimated Cost
Total		

2. System Upgrades

System Upgrades

Description	Owner	Estimated Cost
Total		