



Your Touchstone Energy® Cooperative 

Interconnection of Distributed Resources

Policy and Procedures Manual

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I. General

Plumas-Sierra Rural Electric Cooperative (Cooperative) owns and operates an electric distribution system in order to deliver electricity to its retail customers (the Distribution System). To promote alternative forms of electrical generation and the interconnection of Distributed Generation (DG) facilities with PSREC's electrical and Distribution Systems, PSREC has created this Policy and Procedures Manual (Manual), which defines requirements for interconnection, testing and operations of interconnected generating facilities. An entity seeking to interconnect a Generating Facility to the Distribution System shall follow the procedures set forth in this Manual.

The Distribution System is interconnected to low and high voltage electric transmission lines owned and/or operated by Pacific Gas & Electric Company (PG&E), Liberty Energy (Liberty), and NV Energy. The California Independent System Operator (CAISO) operates PG&E's transmission-level facilities (together, CAISO, PG&E and any other entity listed above are referred to as "Interconnected Systems"). The Cooperative has entered into agreements with these Interconnected Systems establishing certain rights and duties with respect to the interconnection of the Distribution System to the low and high voltage transmission grid. Any interconnection of a DG facility under this Manual must concurrently satisfy any legal obligations of the Cooperative that may arise under these agreements as a result of such interconnection. All timeframes described below are advisory and may be revised as necessary, including after any consultations with Interconnected Systems and to accommodate the response schedule of Interconnected DG Systems.

To receive service from the Cooperative, a customer or entity must join or become a "Member" of the Cooperative. Throughout this manual, customers will be referred to as Members. For more information about the cooperative membership application process, including any applicable membership fees and/or deposits, contact the Cooperative to request new member information at 800-555-2207.

It is the intent of the Cooperative to allow Members to install qualifying DG, provided the Member's DG facility does not adversely affect the Cooperative. The Member must conduct his/her own analysis to determine the economic benefit of DG operation.

A DG facility connected in any way to the Cooperative's system shall be considered as in "parallel" even if the Member does not intend to export power. All provisions of this Manual shall apply to parallel operation of DG facilities as so defined.

This Manual is not a complete description or listing of all laws, ordinances, rules and regulations, nor is this Manual intended to be an installation or safety manual.

If a Member with an existing contract for large power service applies to interconnect a DG facility, PSREC reserves the right to adjust tariffs to recover the cost of service.

A Member may serve all load behind the meter at the location serving the DG facility but will not be allowed to serve multiple meters, multiple consuming facilities or multiple Members with a single DG facility or under a single DG application without prior approval by the cooperative in accordance with the Cooperative's Aggregated Net Metering Policy.

A. Purpose

This Manual describes the requirements for a Member seeking to interconnect a DG Facility with the Distribution System. All interconnection requests shall be evaluated under the Standard Study Process set forth in Section II.

1. Capitalized terms and definitions used herein shall have the meanings specified in Section VII.
2. The Cooperative will require all DG interconnections to demonstrate reliability and operational security. Therefore, DG Facilities interconnected to the Distribution System must comply with the recommendations of the President's Critical Infrastructure Protection Board and best practice recommendations for cyber-security from the electric reliability authority.
3. All proposed Generating Facilities are expected to meet industry standards, refer to Section IV.
4. All Interconnection Applications processed pursuant to this Manual will be evaluated with respect ONLY to the delivery of electric energy to the Distribution System. Requests to wheel the output of the Generating Facility across the Distribution System to an Interconnected System will require further discussions between the Member and the Cooperative and, potentially, additional technical studies by the Cooperative. A Member wheeling across the Distribution System will be obligated to enter into a separate wheeling service agreement with the Cooperative and pay the wheeling service rate established by the Cooperative. In addition, a Member seeking to participate in the CAISO markets, to qualify as resource adequacy capacity in any market, or to deliver energy products to any Interconnected System must satisfy all relevant requirements of the Cooperative, the CAISO and other Interconnected Systems. The Member is solely responsible for contacting the CAISO (and/or any other Interconnected System, if necessary) regarding, and for satisfying, such requirements, although the Cooperative may participate in these discussions for coordination purposes. Any reasonable costs incurred by the Cooperative associated with requests for interconnection or wheeling services, or related requests will be assessed to requesting parties. These costs include hourly costs of time spent by Cooperative employees processing requests and responding to questions from the requesting party.

B. Member's Initial Requirements

1. **Notification**
 - a) The Member requesting to interconnect a DG facility to the Cooperative's Distribution System is responsible for and must follow all provisions of this Manual, in addition to the Rules, Regulations and Tariffs for Electric Service, the Cooperative's Line Extension Policy, all Cooperative tariffs, conditions of service, membership and other service rules and regulations.
 - b) The rated capacity of the Member's DG must not exceed the Cooperative's service capacity.

c) Any Member owning or operating a DG Facility in parallel with the Cooperative's system as defined in this manual under Section I, D.3 must notify the Cooperative, through the process described in this Manual, of the existence, location and category of the DG facility, whether the Member intends to export power to the Cooperative or not.

2. **Service Request**

a) In order to interconnect a DG Facility to the Cooperative's system, a Member must first submit to the Cooperative the Application for Generation Interconnection, Attachment A.

C. **Point of Contact**

The Cooperative shall designate a representative that the Member may contact regarding the status of the Interconnection Application and to obtain technical information regarding the Distribution System. The designated representative shall comply with reasonable requests for interconnection-related information. If portions of the requested information are subject to confidentiality provisions of prior agreements or are critical infrastructure information, such portions of the requested information shall be provided subject to a separate confidentiality agreement. The Cooperative's designated representative can be reached by contacting the Cooperative's Engineering Department at 530-832-4261.

D. **Determine the Category of Distributed Generation Facility**

1. **Connection Level Category**

a) Connected to the Cooperative's system: The Member requests and/or the Member's DG Facility requires connection to the Cooperative's system. All provisions of this manual cover this category.

b) Connected to the Cooperative's Power Supplier's system: The Member requests and/or the Member's DG facility requires connection to the Cooperative's Power Supplier's system. This manual does NOT cover this category. The Member should contact the Cooperative's Power Supplier directly.

2. **Ownership of Facilities**

The Member shall own and be solely responsible for all expense, installation, maintenance and operation of all facilities, including all power generating facilities at and beyond the point of delivery as defined in the Cooperative's tariffs.

3. **Power Export Category**

a) **Parallel – no power export:** *The Member operates a DG facility connected in any way to the Cooperative's system but with no intention to export power.*

b) **Parallel – primarily intended to be less than or equal to consumption (Net Energy Metering or if more than 10KW, Co-Energy Metering):** *The Member operates a DG facility connected in any way to the Cooperative's system rated to produce an amount of electricity less than or equal to the amount of electricity the Member for whom the DG is installed is reasonably expected to consume with the intention to export excess power.*

c) **Parallel – power export:** *The Member operates a DG facility where either the power generated is intended for export only or where the DG facility is rated to produce an amount of electricity greater than the amount of electricity the Member for whom the DG is installed is reasonably expected to consume.*

E. **Interconnection Application**

The Member shall submit its Interconnection Application (Attachment A) to the Cooperative with the applicable application fee specified in the Interconnection Application. The non-refundable application fee will be used to defray the initial costs of processing the Interconnection Application. Additional charges for application review and processing may be assessed if incurred by the Cooperative to cover Cooperative processing costs.

F. **Queue Position**

The Cooperative shall assign a Queue Position based upon the date/time-stamp of the Interconnection Application. The Queue Position of each Interconnection Application will be used to determine the cost responsibility for Distribution Upgrades necessary to accommodate the interconnection. The Cooperative shall maintain a single queue. Interconnection Applications shall be studied in the order received unless otherwise agreed by all affected parties.

The original date/time-stamp applied to the Interconnection Application at the time of its submission shall be referred to with respect to any timetable specified in this Manual. The Cooperative shall notify the Member via mail or email of its receipt of the Interconnection Application and notice as to whether the Interconnection Application is complete or incomplete within Fifteen (15) Business Days. This notification requirement may be extended with proper notice to the Member, if required, due to necessary or unforeseen circumstances.

If the Interconnection Application is deemed incomplete, the Cooperative shall provide written notice to the Member detailing all information which must be provided to complete the Interconnection Application. The Member will have ten (10) Business Days after receipt of such notice to submit the required information or to request an extension of time to provide the information. If the Member does not provide the required information or a request for an extension of time within the deadline, the Interconnection Application will be deemed withdrawn.

An Interconnection Application for the expansion of capacity of an existing Generating Facility shall be treated the same as an Interconnection Application for a new DG Facility pursuant to this Manual.

A separate Interconnection Application must be submitted for each DG Facility and for each proposed expansion of capacity of an existing DG Facility.

G. Modification of the Interconnection Application

Any Modification proposed by the Member for generator data or equipment configuration or to the interconnection site of the DG Facility not agreed to in writing by the Cooperative may be deemed a withdrawal of the Interconnection Application and may require submission of a new Interconnection Application unless the Member is able, within a reasonable time frame and to the Cooperative's satisfaction, to remedy any complications created by the change.

H. Site Exclusivity

Documentation of site exclusivity must be submitted with the Interconnection Application. Site exclusivity may be demonstrated through:

1. Ownership of, a leasehold interest in, or a right to develop a site for the purpose of constructing the DG Facility;
2. An option to purchase or acquire a leasehold site for such purpose; or
3. An exclusivity or other business relationship between the Member and the entity having the right to sell, lease, or grant the Member the right to possess or occupy a site for such purpose.

The Cooperative may, in its discretion and on a non-discriminatory and comparable basis, make exceptions to the site exclusivity requirement in individual cases where circumstances merit such an exception.

II. Standard Study Process

A. Applicability

This Standard Study Process shall be used by a Member proposing to interconnect its DG Facility with the Distribution System for any DG Facility more than 25-kilowatts or, unless it is determined, at the sole discretion of the Cooperative, that the proposed DG Facility meets the safety, regulatory and other requirements in this Manual, or the Cooperative has otherwise determined that the Generating Facility is safe to operate and is consistent with the requirements of these procedures.

1. Applications to interconnect a DG Facility of 25kW or less intended for Net Energy Metering or Co-Energy Metering may skip to section III.

The timelines as described below reflect obligations of the Cooperative but do not indicate the expected timelines or schedule requirements of Interconnected or Affected Systems. The Cooperative will make reasonable efforts to inform and coordinate with the Member regarding these timing issues.

B. Scoping Meeting

1. A Scoping Meeting between the Cooperative and the Member will be scheduled within thirty (30) Business Days after a complete Interconnection Application is submitted. The Cooperative and the Member will bring to the meeting personnel, including system engineers and other resources as may be reasonably required to

accomplish the purposes of the meeting. The Cooperative may invite the participation of Interconnected System representatives, and may, if needed, delay the meeting to ensure their participation. The Scoping Meeting may be omitted by mutual agreement.

2. The purpose of the Scoping Meeting is to discuss the Interconnection Agreement, including potential impacts of the proposed interconnection on the Distribution System and Interconnected Systems; to discuss reasonable Commercial Operation Dates and alternative interconnection options; to exchange information, including any existing studies relevant to the Interconnection Application or distribution data or transmission data that would reasonably be expected to impact such interconnection options; to analyze such information; and to eliminate potentially unviable alternatives given resources and other available information. Specific topics to be discussed include:

- a) The need for, scope, and estimated cost of, any technical studies of the impacts of the proposed interconnection on the Distribution System;
- b) The need and design process for, and estimated cost of, any facilities needed to complete the proposed interconnection, including Cooperative Interconnection Facilities and Distribution Upgrades;
- c) Potential impacts on Interconnected Systems and any need for, and the process of, coordination with the Interconnected System(s);
- d) Deposits, financial security, and cost responsibility related to moving forward with the Interconnection Application;
- e) The need for, and execution of, any related contracts, including Interconnection Study Agreements;
- f) The need and schedule for additional meetings and/or exchange of data regarding the proposed interconnection, if necessary, to initiate or complete the Interconnection Studies; and
- g) Further performance necessary for the tender of an Interconnection Agreement.

C. Interconnection Studies

1. Within five (5) Business Days following the Scoping Meeting, or after the Interconnection Application has been deemed complete if Scoping Meeting is omitted, the Member shall designate the Point of Interconnection to be used in the Cooperative's Interconnection Studies.

2. Within fifteen (15) Business Days following its receipt of the Member's preferred Point of Interconnection, the Cooperative shall provide the Member with:

- a) a description of the Interconnection Study or Studies expected to be needed to evaluate the impacts of the proposed interconnection on the Distribution System and/or determine the extent and design of any Cooperative Interconnection Facilities or Distribution Upgrades needed to safely and reliably complete the proposed interconnection;
- b) a reasonably detailed, non-binding good faith estimate of the cost of the study or studies; and
- c) an Interconnection Study Agreement (Attachment B). In order to remain in consideration for interconnection, a Member must return the executed Study Agreement within thirty (30) Business Days after receipt

along with the greater of (i) an initial deposit of \$15,000 dollars or (ii) sufficient funds to cover the expected costs of the necessary study(ies).

3. At any time during the course of the Interconnection Studies, the Member, the Cooperative, or an Interconnected System, as applicable, 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 Application. To the extent the identified changes are acceptable to the Cooperative and Member, such acceptance not to be unreasonably withheld, and such changes are not Material Modifications, the Cooperative shall modify the Point of Interconnection and/or configuration in accordance with such changes without altering the Interconnection Application's eligibility for participating in the technical studies. However, the Member will be responsible for all additional study and other costs caused by the modification. Modifications permitted under this Section shall include specifically:

- a) a decrease in the electrical output (MW) of the proposed project;
- b) modifying the technical parameters associated with the Generating Facility technology or the Generating Facility step-up transformer impedance characteristics; and
- c) Non-Material Modifications to the interconnection configuration.

For any other modification, the Member may first request that the Cooperative evaluate whether such modification is a Material Modification. In response to the Member's request, the Cooperative, in coordination with any Interconnected System, if applicable, shall evaluate the proposed modifications prior to making them and inform the Member in writing of whether the modifications would constitute a Material Modification. Any change to the Point of Interconnection, except for that specified by the Cooperative in an Interconnection Study or otherwise allowed under this Section, shall constitute a Material Modification. The Member may then either withdraw the proposed modification or proceed with a new Interconnection Application for such modification. The Member shall remain eligible to proceed with the Interconnection Study if the modifications are in accordance with this Section.

4. Once the Interconnection Study or Studies are completed, the Cooperative will prepare a report of the results of the studies and transmit the report to the Member. If appropriate, the study report will include the design for any required Cooperative Interconnection Facilities and/or Distribution Upgrades and specify, together with an estimate of the cost, of the equipment, engineering, procurement and construction work (including overheads) needed to implement the conclusions of the study or studies.

5. If requested by the Member, the Cooperative will meet with the Member to discuss the study results and report within thirty (30) Business Days of the date the final report is provided to the Member.

D. Interconnection Facilities and Distribution Upgrade Cost Responsibility and Financial Security

1. The Member shall be solely responsible for all costs and expenses to procure, construct, install, test, operate and maintain the Interconnection Facilities and any Distribution Upgrades identified in the Interconnection Study or later determined to be required to safely and reliably interconnect the DG Facility to the Distribution System. The Member shall also be responsible for all costs and expenses associated with any facilities or operational requirements imposed by affected Interconnected Systems due to the interconnection of the DG Facility.
2. Prior to the initiation of any design, procurement, installation or construction or any related work on the Interconnection facilities or as otherwise agreed to by the Cooperative, the Member must provide the Cooperative with Financial Security in an amount equal to the Interconnection Facilities and Distribution Upgrade cost estimate stated in the Interconnection Study Report.
3. Financial Security in an amount of \$25,000 or less will need to be in the form of a check made payable to Plumas-Sierra Rural Electric Cooperative. Financial Security in an amount of more than \$25,000 may, at the Member's option, take the form of: a guarantee, surety bond, letter of credit or other form of payment security reasonably acceptable to the Cooperative.
 - a) If the Member elects to provide a guarantee, the guarantee must be provided by a third party that meets the reasonable creditworthiness requirements of the Cooperative, and contain terms and conditions that guarantee payment of any amount due from the Member pursuant to Section II, D.1, up to an agreed-to maximum amount.
 - b) If the Member elects to provide a letter of credit or surety bond, the letter of credit or surety bond must be issued by a financial institution or surety provider reasonably acceptable to the Cooperative and unless the Parties agree to a period in which replacements must be provided, must specify a reasonable expiration date, given the projected period to construct any Interconnection Facilities and Distribution System Upgrades.
4. The failure by a Member to timely post any and all Interconnection Financial Security required herein shall constitute grounds for termination of the Interconnection Agreement.

III. Provisions that Apply to All Interconnection Applications

A. Applicable Regulations

1. The DG Facility shall be installed and operated subject to and in accordance with the terms and conditions set forth in the Cooperative's rules, regulations, bylaws, rates and tariffs, as amended from time to time, and, if applicable, approved by the Cooperative's board of directors, which are incorporated herein by reference, and in

compliance with all applicable federal, state and local laws, regulations, zoning codes, building codes, safety rules, environmental restrictions, ordinances and regulations, including without limitation, the most recent IEEE Standard 1547 Guide for Distributed Generation Interconnection, applicable ANSI standards, including ANSI C84.1 Range A, Western Electricity Coordinating Council (WECC), CPUC, CEC and CA Independent System Operator (ISO) directives and guidelines, and in accordance with industry standard prudent engineering practices.

B. Liability Insurance

1. The Member is required to purchase appropriate liability insurance. The Cooperative recommends the Member obtain liability insurance including contractual liability insurance covering indemnity agreements which insures the Member against all claims for property damage and for personal injury or death arising out of, resulting from or in any manner connected with the installation, operation and maintenance of the Member's generating equipment.

C. Contracts

1. The Member will sign and deliver an Interconnection Application and related documentation to the Cooperative in accordance with this Manual, including an Interconnection Agreement, Net Metering Agreement if applicable, Co-Energy Metering Agreement if applicable, and Study Agreement if applicable.

D. Reasonable Efforts

The Cooperative shall make reasonable efforts to meet all time frames provided in this Manual, including the payment of refunds, unless the Cooperative and the Member agree to a different schedule. If the Cooperative cannot meet a deadline or timeline provided herein, it shall notify the Member, explain the reason for the failure to meet the deadline, and provide an estimated time by which it will complete the applicable interconnection process, provided, however, the Cooperative does not control the response times of the Interconnected Systems, and the Member bears the risk of third party delays.

E. Disputes

1. The Parties agree to attempt to resolve all disputes arising out of the interconnection process according to the provisions of this Manual.
2. The Parties agree that avoiding litigation is in their best interests. Accordingly, the Parties shall first attempt in good faith to resolve any dispute over the interpretation or enforcement of the terms of this Manual by alternative dispute resolution methods, including but not limited to mediation, settlement conference, or arbitration. Litigation in court shall be a last resort that shall be available only if such good faith efforts have failed.

F. Confidentiality

1. Confidential Information shall mean any confidential and/or proprietary information provided by one Party to the other Party that is clearly marked or otherwise designated "Confidential." For purposes of this Agreement all design, operating specifications, and metering data provided by the Member shall be deemed confidential information regardless of whether it is clearly marked or otherwise designated as such.

2. Confidential Information does not include information previously or subsequently in the public domain other than through breach of this Section F; required to be publicly submitted or divulged by Governmental Authorities or by any Applicable Laws or Regulations, or necessary to be divulged in an action to enforce this Agreement. Each Party receiving Confidential Information shall hold such information in confidence and shall not disclose it to any third party (other than Interconnected Systems or Affiliates assisting in the evaluation of the Interconnection Application) nor to the public without the prior written authorization from the Party providing that information, except to fulfill obligations under this Agreement, or to fulfill legal or regulatory requirements.

a) Each Party shall employ at least the same standard of care to protect Confidential Information obtained from the other Party as it employs to protect its own Confidential Information.

b) Each Party is entitled to equitable relief, by injunction or otherwise, to enforce its rights under this provision to prevent the release of Confidential Information without bond or proof of damages, and may seek other remedies available at law or in equity for breach of this provision.

3. Notwithstanding anything in this Manual to the contrary, and pursuant to 18 CFR § 1 b.20, if FERC, during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to this Agreement, the Party shall provide the requested information to FERC, within the time provided for in the request for information. In providing the information to FERC, the Party may, consistent with 18 CFR § 388.112, request that the information be treated as confidential and non-public by FERC and that the information be withheld from public disclosure. Parties are prohibited from notifying the other Party to this Agreement prior to the release of the Confidential Information to FERC. The Party shall notify the other Party to this Agreement when it is notified by FERC that a request to release Confidential Information has been received by FERC, at which time either of the Parties may respond before such information would be made public, pursuant to 18 CFR § 388.112. Requests from a state regulatory body conducting a confidential investigation shall be treated in a similar manner if consistent with the applicable state rules and regulations.

G. Comparability

1. The Cooperative shall receive, process, and analyze all Interconnection Applications in a timely manner as set forth in this Manual. The Cooperative shall use Reasonable Efforts in processing and analyzing Interconnection Applications from all

Members, whether the Generating Facility is owned or operated by the Cooperative, by any joint action agency of which the Cooperative is a member, or by any other entity.

H. **Record Retention**

1. The Cooperative shall maintain all records obtained during the interconnection application process in accordance with its record retention policies, which are available upon request.

I. **Interconnection Agreement**

1. Within thirty (30) Calendar Days after all final Interconnection Study reports are provided by the Cooperative, where applicable, the Cooperative shall tender a draft Interconnection Agreement, together with draft appendices, to the Member. The Member shall provide written comments, or notification of no comments, to the draft appendices within thirty (30) Calendar Days. A pro forma Interconnection Agreement is incorporated in this Manual as Attachment C.

a) Negotiation

Notwithstanding Section III, I.1, at the request of the Member, the Cooperative may begin negotiations with the Member concerning the appendices to the Interconnection Agreement at any time after the Cooperative provides the final Interconnection Study Report to the Member. The Cooperative and the Member shall negotiate concerning any disputed provisions of the appendices to the draft Interconnection Agreement for not more than ninety (90) Calendar Days after the Cooperative provides the Member with the final Interconnection Study report. If the 90-day deadline is reached without finalizing the Interconnection Agreement, or if the Member determines at any point prior to that date that negotiations are at an impasse, it may request termination of the negotiations and initiate Dispute Resolution procedures under Section III, E. If the Member terminates negotiations but fails to initiate Section III, E Dispute Resolution procedures within five (5) Business Days, the Interconnection Application shall be deemed withdrawn.

b) Execution

Once negotiations conclude, the Member shall promptly execute two (2) originals of the Interconnection Agreement and return them to the Cooperative. The Interconnection Agreement shall take effect on the date executed by the Cooperative or on the date specified in the Agreement, whichever is later, unless federal or state law should require notification, further proceedings or approval, in which case the Interconnection Agreement will become effective when such requirements are satisfied.

J. **Coordination with Interconnected Systems**

If one or more Interconnected Systems requires the conduct of any studies to determine the impact of the proposed interconnection on an Interconnected System, the Member is responsible for coordination of such studies with the Interconnected System, unless the Member requests and the Cooperative agrees that the Cooperative will be

responsible for such coordination. The Member will keep the Cooperative informed of the progress of its discussions with Interconnected Systems and will not object to the participation by the Cooperative in such discussions and meetings with Interconnected Systems to the extent that the Cooperative deems necessary. The Member and the Cooperative will cooperate in all matters related to the conduct of studies and the coordination with Interconnected Systems, with the proviso that the Member is responsible for all costs of such coordination, including costs incurred by the Cooperative to provide information to or to participate in the studies performed by the Interconnected System in support of the Interconnection Application.

K. Capacity of the DG Facility

1. If the Interconnection Application is for an increase in capacity for an existing DG Facility, the Interconnection Application shall be evaluated on the basis of the new total capacity of the DG Facility.
2. If the Interconnection Application is for a DG Facility that includes multiple energy production devices at a site for which the Member seeks a single Point of Interconnection, the Interconnection Application shall be evaluated on the basis of the aggregate capacity of the multiple devices.
3. The Interconnection Application shall be evaluated using the maximum rated capacity of the Generating Facility.

IV. TECHNICAL REQUIREMENTS

A. Interconnection Standards

The Member's Facilities shall be designed, constructed, operated and maintained in accordance with industry standards for electric system infrastructure and operational security, including physical, operational, and cyber-security practices as well as the technical and operational requirements determined by the Cooperative and other applicable standards in accordance with Prudent Utility Practice and the specific configuration of the Distribution System or Interconnected systems.

B. Operation of Parallel Facility

1. The purpose of this section is to describe the requirements and procedures for safe and effective connection and operation of DG.
 - a) The Member may operate a 60 Hertz (Hz) three-phase or single-phase DG facility, in parallel with the Cooperative's system pursuant to an Interconnection Agreement, provided that the equipment meets or exceeds the requirements of this Manual.
 - b) This Manual describes typical interconnection requirements. Certain specific interconnection locations and conditions may require the installation

and use of more sophisticated protective devices and operating schemes, especially when the facility is exporting power to the Cooperative system.

2. Pre-certified equipment: Equipment pre-certified under the provisions of the California Energy Commission may be installed on the Cooperative's system in accordance with an approved interconnection control and protection scheme with expedited review of their design by the Cooperative, though the protective settings and operations shall be those specified by the Cooperative.

3. General interconnection and protection requirements

a) The DG shall be equipped with protective hardware and software designed to prevent the DG from being connected to a de-energized circuit owned by the Cooperative.

b) The DG shall be equipped with the necessary protective hardware and software designed to prevent connection or parallel operation of the DG with the Cooperative's system unless the Cooperative's system voltage and frequency are of normal magnitude.

c) The Member will be responsible for protecting its DG in such a manner in which outages, short circuits, or other disturbances on the Cooperative's system, including zero sequence currents and Ferro-resonant over-voltages do not damage the Member's DG. The Member's protective equipment shall also prevent unnecessary tripping of the breakers on the Cooperative's system that would affect the capability of the Cooperative's system of providing reliable service to other members.

d) Circuit breakers or other interrupting devices at the point of common coupling must be capable of interrupting maximum available fault current.

4. Manual disconnect: The Member will furnish and install a manual disconnect device that has a visual break and is appropriate to the voltage level (a disconnect switch, a draw-out breaker, or fuse block), is accessible to the Cooperative personnel, and capable of being locked in the open position. The Member shall follow the Cooperative's switching, clearance, tagging, and locking procedures, which the Cooperative shall provide for the Member.

5. Prevention of interference

a) Voltage: The Member will operate its DG in such a manner that the voltage levels on the Cooperative's system are in the same range as if the DG were not connected to the Cooperative's system. The Member shall provide an automatic method of disconnecting the DG from the Cooperative's system if a sustained voltage deviation in excess of +5% or -10% from normal voltage persists for more than 30 seconds, or a deviation in excess of +10% or -30% from normal voltage persists for more than 10 cycles. The Member may reconnect when the Cooperative's system voltage and frequency return to normal range and the system is stabilized.

- b) Flicker: The Member's equipment shall not cause excessive voltage flicker on the Cooperative's system. This flicker shall not exceed 3% voltage dip, in accordance with the IEEE Standard 519 as measured at the point of common coupling.
- c) Frequency: The operating frequency of the Member's DG shall not deviate more than +0.5 Hz or -0.7 Hz from a 60 Hz base. The Member shall automatically disconnect the DG from the Cooperative's system within 15 cycles if this frequency tolerance cannot be maintained. The Member may reconnect when the Cooperative's system voltage and frequency return to normal range and the system is stabilized.
- d) Harmonics: In accordance with IEEE Standard 519 the total harmonic distortion (THD) voltage shall not exceed 5% of the fundamental 60 Hz frequency nor 3% of the fundamental frequency for any individual harmonic when measuring at the point of common coupling with the utility system.
- e) Fault and line clearing: The Member shall automatically disconnect from the Cooperative's system within 10 cycles if the voltage on one or more phases falls below -30% of nominal voltage on the Cooperative's system serving the Member premises. This disconnect timing also ensures that the DG is disconnected from the Cooperative's system prior to automatic re-close of breakers. The member may reconnect when the Cooperative's system voltage and frequency return to normal range and the system is stabilized. To enhance reliability and safety and with the Cooperative's approval, the member may employ a modified relay scheme with delayed tripping or blocking using communications equipment between the Member and the Cooperative.
- f) Control, protection and safety equipment requirements specific to three-phase synchronous generators, induction generators, and inverter systems:
- (1) Three phase synchronous generators: The Member's DG circuit breakers shall be three-phase devices with electronic or electromechanical control. The Member is solely responsible for properly synchronizing its generator with the Cooperative. The excitation system response ratio shall not be less than 0.5. The generator's excitation system(s) shall conform, as near as reasonably achievable, to the field voltage versus time criteria specified in the ANSI Standard C50.13-1989 in order to permit adequate field forcing during transient conditions.
 - (2) Three phase induction generators and inverter systems: Induction generation may be connected and brought up to synchronous speed (as an induction motor) if it can be demonstrated that the initial voltage drop measured on the utility system at the point of common coupling is within the visible flicker stated in this manual. Otherwise, the Member may be required to install hardware or employ other

techniques to bring voltage fluctuations to acceptable levels. Line-commutated inverters do not require synchronizing equipment. Self-commutated inverters whether of the utility-interactive type or stand-alone type shall be used in parallel with the utility system only with synchronizing equipment. Direct-current generation shall not operate in parallel with the utility system.

g) Protective function requirements

(1) Facilities rated 25kW or less: Must have an interconnect disconnect device, a generator disconnect device, an over-voltage trip, an under-voltage trip, an over/under frequency trip, and a manual or automatic synchronizing check (for facilities with stand-alone capability).

(2) Facilities rated in excess of 25kW: Must have an interconnect disconnect device, a generator disconnect device, an over-voltage trip, and under-voltage trip, and over/under frequency trip, a manual or automatic synchronizing check (for facilities with stand-alone capability), either a ground over-voltage trip or a ground over-current trip depending on the ground system if required by the Cooperative, and reverse power sensing if the facility is not exporting (unless the generator is less than the minimum load of the Member).

h) Facilities not identified: In the event the standards for a specific unit or facility are not set out in this manual, the Cooperative and the Member may interconnect a facility using mutually agreed upon technical standards.

i) Requirements specific to a facility paralleling for 60 cycles or less (closed transition switching): The protective devices required for facilities which parallel with the Cooperative's system for 60 cycles or less are an interconnect disconnect device, a generator disconnect device, an automatic synchronizing check for generators with stand-alone capability, an over-voltage trip, an under voltage trip, an over/under frequency trip, and either a ground over-voltage trip or a ground over-current trip depending on the grounding system, if required by the Cooperative.

j) Inspection and start-up: The Member shall provide the Cooperative with notice of at least fifteen (15) Business Days or as otherwise mutually agreed upon by each Party to initiate commissioning tests and the Cooperative may be present to witness any testing. The Member shall revise and re-submit the application with information reflecting any proposed modification that may affect the safe and reliable operation of the Cooperative's system. Commissioning tests of the Member's installed equipment shall be performed pursuant to applicable codes and standards

k) Site testing and commissioning: Testing of protection systems shall include procedures to functionally test the protective elements of the system up to and including tripping of the generator and interconnection point. Testing will verify all protective set points and relay/breaker trip timing. The Cooperative may witness the testing of installed switchgear, protection and generator. The Member is responsible for routine maintenance of the generator and control and protective equipment. The Member will maintain records of such maintenance activities, which the Cooperative may review at reasonable times. A log of generator operations shall be kept. At a minimum, the log shall include the date, generator time on, generator time off, and megawatt and megavar output. The Cooperative may review such logs at reasonable times.

6. Access

a) Personnel authorized by the Cooperative will have the right to enter the Member's property for purposes of testing, operating the disconnect switch, reading or testing the metering equipment, maintaining right-of-way or other DG facility equipment and/or Cooperative service requirement. Such entry onto the Member's property may be without notice.

b) If the Member erects or maintains locked gates or other barriers, the Member will furnish the Cooperative with convenient means to circumvent the barrier for full access for the above-mentioned reasons.

7. Liability for Injury and Damages

a) The Member assumes full responsibility for electric energy furnished at and past the point of delivery and shall indemnify the Cooperative and/or its Power Supplier against and hold harmless from all claims for both injuries to persons, including death resulting therefrom, and damages to property occurring upon the premises owned or operated by Member arising from electric power and energy delivered by the Cooperative or in any way arising directly or indirectly from the Member's DG facility.

b) The Cooperative and/or its Power Supplier shall not be liable for either direct or consequential damages resulting from failures, interruptions, or voltage and waveform fluctuations occasioned by causes reasonably beyond the control of the Cooperative and/or its Power Supplier including, but not limited to, acts of God or public enemy, sabotage and/or vandalism, accidents, fire, explosion, labor troubles, strikes, order of any court or judge granted in any bona fide adverse legal proceeding or action, or any order of any commission, tribunal or governmental authority having jurisdiction. ALL PROVISIONS NOTWITHSTANDING, IN NO EVENT SHALL THE COOPERATIVE BE LIABLE TO THE MEMBER FOR ANY INTEREST, LOSS OF ANTICIPATED REVENUE, EARNINGS, PROFITS, OR INCREASED EXPENSE OF OPERATIONS, LOSS BY REASON OF SHUTDOWN OR NON-OPERATION OF MEMBER'S PREMISES OR FACILITIES FOR ANY INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED, IN WHOLE OR PART, TO THIS

AGREEMENT. The Cooperative shall not be liable in any event for consequential damages.

c) The Member is solely responsible for ensuring his/her facility complies with all applicable regulations including, but not limited to, laws, regulations, ordinances, Cooperative and Cooperative Power Supplier tariffs, policies and directives, CAISO and WECC rules, policies and directives.

8. Net Energy Metering and Co-Energy Metering Monitoring

a) The Member will be responsible for the cost of all necessary meters and associated equipment to record energy purchases by the Member and energy exports to the Cooperative's system.

b) The Member shall supply at no cost to the Cooperative a suitable location on his or her premises for the installation of the Cooperative's meters and other equipment.

c) The facility will be metered by one of the following methods, at the discretion of the Cooperative to measure energy supplied to the Member by the Cooperative and energy supplied to the Cooperative by the Member. The two metered values shall be separately accounted for by the Cooperative.

(1) Installing a single meter with multiple registers capable of measuring energy delivered and received at the point of common coupling or

(2) Installing separate meters, that measure energy delivered and received at the point of common coupling.

d) The meter shall be read at a time or times of month determined by the Cooperative for acquiring metering data. Meter testing shall follow the Cooperative's standard policy on meter testing and accuracy.

e) At its sole discretion, the Cooperative may meter the facility at primary or secondary level.

f) The Cooperative shall not be required to make any purchases that will cause the Cooperative to no longer be in compliance with any applicable contracts or all-power contract requirements with its power supplier(s) unless required by law or state regulation.

g) For generation greater than 25kW, PSREC may require remote monitoring capability and telecommunications of metering information.

h) The Member shall sign, depending on applicability, the Net Energy Metering Electrical Generator Interconnection Agreement (Attachment C-1) or the Co-Energy Metering Electrical Generator Interconnection Agreement (Attachment C-2) and Net Metering Payment Agreement (Attachment D) or the Co-Energy Metering Payment Agreement (Attachment E).

9. Notice of Change in Installation
- a) The Member will notify the Cooperative in writing thirty (30) days in advance of making any change affecting the characteristics, performance, or protection of the DG facility.
- b) If any modification undertaken by the Member will create or has created conditions which may be unsafe or adversely affect the Cooperative system, the Member shall immediately correct such conditions or be subject to immediate disconnection from the Cooperative's system.
10. Record Keeping: The Cooperative shall maintain records concerning applications received for interconnection and parallel operation of DG facilities. Such records will include the date each application is received, documents generated in the course of processing each application, correspondence regarding each application, and the final disposition of each application.
11. Disconnection and Reconnection of Service
- a) The Cooperative may disconnect a DG facility under the following conditions:
- (1) Expiration or termination of the interconnection agreement: Upon expiration or termination of the interconnection agreement with a Member, in accordance with the terms of the agreement, the Cooperative may disconnect the DG facilities.
- (2) Non-compliance with technical requirements: The Cooperative may disconnect a DG facility if the facility is not in compliance with the requirements specified in this manual. Within two business days from the time the Member notifies the Cooperative that the DG facility has been restored to compliance with the requirements of this manual, the Cooperative shall verify such compliance. Upon such verification, the Member, in coordination with the Cooperative, may reconnect the DG facility.
- (3) System emergency: The Cooperative may temporarily disconnect a Member and/or a DG facility without prior written notice in cases where continued interconnection will endanger persons or property. During the forced outage of the Cooperative's system, the Cooperative shall have the right to temporarily disconnect a Member and/or a DG facility to make immediate repairs on the Cooperative's system. When possible, the Cooperative shall provide the Member with reasonable notice and reconnect the Member as quickly as reasonably practical.
- (4) Routine maintenance, repairs and modifications: The Cooperative may disconnect a Member and/or a DG facility with seven business days' prior written notice of service interruption or, if seven

business days' prior written notice is not reasonably practical as much notice as is reasonably practical, for routine maintenance, repairs and modifications to the Cooperative's system. The Cooperative shall reconnect the Member as quickly as reasonably possible following such service interruption.

(5) Lack of approved Interconnection Application and Interconnection Agreement: The Cooperative may refuse to connect or may disconnect a DG facility if an application has not been received and approved and if an Interconnection Agreement has not been executed by both parties.

C. Delegation of Responsibility

Cooperative may use the services of subcontractors as it deems appropriate to perform its obligations under these Procedures. Cooperative shall remain primarily liable to the Member for the performance of such subcontractors and compliance with its obligations under these Generator Interconnection Procedures. The Cooperative shall, prior to disclosing any Confidential Information to any such subcontractor, obtain the subcontractor's agreement to keep all customer information provided confidential and use such information solely for the performance of such obligation for which it was provided and no other purpose.

V. General Provisions Concerning Construction of Cooperative's Interconnection Facilities, Distribution Upgrades, and Network Upgrades

A. Schedule

Cooperative and the Member shall negotiate in good faith concerning a schedule for the construction of Cooperative's Interconnection Facilities and Distribution Upgrades.

B. Construction Sequencing

1. In general, the sequence of construction of Cooperative Interconnection Facilities and Distribution System Upgrades shall be determined, to the maximum extent practical, in a manner that accommodates the proposed Commercial Operation of the Generating Facility.

2. Advancing Construction of Distribution Upgrades that are Part of an Expansion Plan of the Cooperative

a) A Member with an Interconnection Agreement, in order to maintain its In-Service Date, may request that the Cooperative advance, to the extent necessary, the completion of Distribution Upgrades that: (i) are necessary to support such In-Service Date and (ii) would otherwise not be completed, pursuant to an expansion plan of the Cooperative in time to support such In-

Service Date. Upon such request, the Cooperative will use Reasonable Efforts to advance the construction of such Distribution Upgrades to accommodate such request; provided that the Member commits to pay the Cooperative any associated expediting costs in addition to all other costs the Member is required to pay pursuant to these Procedures and any applicable Interconnection Agreement.

C. Network Upgrades

Design, construction, and funding of any required Network Upgrades shall be determined by the Cooperative, the Member and Interconnected Systems.

VI. Generally Applicable Provisions Regarding, Withdrawal, Transferability of Interconnection Application, Use of Study Deposits, Refunds of Study Deposits, and Other Cost Responsibilities

A. Withdrawal

1. The Member may withdraw its Interconnection Application at any time by written notice of such withdrawal to the Cooperative and to any Interconnected Systems involved. In addition, after confirmation by the Cooperative of a valid Interconnection Application, if the Member fails to adhere to the requirements of this Manual, the Cooperative shall deem the Interconnection Application to be withdrawn and shall provide written notice to the Member of the deemed withdrawal and an explanation of the reasons for such deemed withdrawal. If the Member does not concur with Cooperative's deemed withdrawal, it shall, within five (5) Business Days of receipt of such notice, either: (i) respond with information or action that either cures the deficiency or supports its position that the deemed withdrawal was erroneous; or (ii) notify the Cooperative of its intent to pursue Dispute Resolution under these procedures.

2. Withdrawal shall result in the removal of the Interconnection Application from the Interconnection Study Process and from the Cooperative's interconnection queue, if any.

3. In the event of a withdrawal, the Cooperative, subject to these procedures, shall provide, at the Member's request, all information that the Cooperative developed for any completed study conducted up to the date of withdrawal of the Interconnection Application.

4. Withdrawal of an Interconnection Application or termination of an Interconnection Agreement shall result in the release to the Member of any Interconnection Financial Security posted by the Member for Cooperative's Interconnection Facilities and Distribution Upgrades, except with respect to any amounts necessary to pay for costs incurred or irrevocably committed by the Cooperative on behalf of the Member for the Cooperative's Interconnection Facilities

and Distribution Upgrades and for which the Cooperative has not been previously reimbursed.

B. Transferability of Interconnection Application

A Member may transfer its Interconnection Application to another entity only if such entity acquires the specific Generating Facility identified in the Interconnection Application, or acquires the rights to develop such proposed Generating Facility from the original applicant, including acquiring the requisite site control, and the Point of Interconnection does not change.

C. Use of Interconnection Study Deposit

Any Interconnection Study Deposits shall be applied to pay for actual costs incurred by the Cooperative, to evaluate the Interconnection Application, perform and administer the Interconnection Study, and/or to meet and otherwise communicate with Members and Interconnected Systems with respect to the Interconnection Application.

D. Refunds Of Interconnection Study Deposits

1. Prior To The Execution Of The Interconnection Agreement

Should a Member withdraw the Interconnection Application, or the Interconnection Application be deemed withdrawn by the Cooperative by written notice under these procedures on or before seventy-five (75) Calendar Days following the Scoping Meeting, the Cooperative shall refund to the Member any portion of the Member's Interconnection Study Deposit that exceeds the actual costs the Cooperative has incurred on the Member's behalf. If there is a withdrawal or deemed withdrawal of the Interconnection Application more than seventy-five (75) Calendar Days after the Scoping Meeting (or after the Interconnection Application was deemed complete if the Scoping Meeting was omitted), the Member is not entitled to receive any Interconnection Study Deposit refund.

2. Upon Execution Of The Interconnection Agreement

Upon execution of a Interconnection Agreement by a Member and the Cooperative, the Cooperative shall refund to the Member any portion of the Member's Interconnection Study Deposit that exceeds the costs the Cooperative or any Affected Parties have incurred on the Member's behalf, or, if Distribution Upgrades are required, apply any excess Study Deposit funds toward the Distribution Upgrade costs.

E. Responsibility For Actual Costs In Excess Of Deposit

Notwithstanding any other provision in these procedures, a Member who withdraws or is deemed to have withdrawn its Interconnection Application during the Study Process shall be obligated to pay to the Cooperative all costs in excess of the Interconnection Study Deposit that have been actually incurred or irrevocably have been committed to be incurred with respect to that Interconnection Application prior to withdrawal. The Member must pay all monies due before it is allowed to obtain any interconnection study data or results of studies performed on its behalf.

F. **Obligation for Study Costs**

Except as otherwise provided in these Generator Interconnection Procedures, the Cooperative shall charge and the Member(s) shall pay the actual costs of the Interconnection Studies.

The Cooperative shall issue invoices for Interconnection Studies it performs. Whenever the actual cost of performing the Interconnection Studies exceeds the Interconnection Study Deposit, the Member shall pay the undisputed difference in accordance with the Cooperative issued invoice within thirty (30) Calendar Days. The Cooperative shall not be obligated to continue to have any studies conducted unless the Member has paid all amounts for Study Costs.

VII. **Terms & Definitions**

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

Applicable Reliability Standards means the requirements and guidelines of NERC, WECC, the Balancing Authority Area of the Distribution System to which the Generating Facility seeks interconnection, and the Cooperative, including the requirements pursuant to Section 215 of the Federal Power Act.

Business Day means Monday through Friday, excluding Federal Holidays.

Calendar Day means any day including Saturday, Sunday and Federal Holidays.

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

Commercial Operation Date of an Electric Generating Unit means the date on which an Electric Generating Unit at a Generating Facility commences Commercial Operation as agreed to by the Parties.

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

Cooperative means Plumas-Sierra Rural Electric Cooperative

Distribution System has the meaning given in Section I.

Distribution Upgrades means the additions, modifications, and upgrades to the Distribution System at or beyond the Point of Interconnection to facilitate interconnection of the Generating Facility and render the service necessary to affect the Member's wholesale sale of electricity in interstate commerce. Distribution Upgrades do not include Interconnection Facilities.

Electric Generating Unit means an individual electric generator and its associated plant and apparatus whose electrical output is capable of being separately identified and metered.

FERC means the Federal Energy Regulatory Commission (Commission) or its successor.

Generating Facility means the Member's device for the production of electricity identified in the Interconnection Application, but shall not include the Member's Interconnection Facilities.

Generating Facility Capacity means the net capacity of the Generating Facility and the aggregate net capacity of the Generating Facility where it includes multiple Electric Generating Units.

Governmental Authority means any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over the Parties, their respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power. The Cooperative is a Governmental Authority.

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

Interconnected System(s) has the meaning given in Section I.

Interconnection Application means the Member's application, submitted in accordance with these Generator Interconnection Procedures, to interconnect a new Generating Facility, or to increase the capacity of, or make a Material Modification to the operating characteristics of, an existing Generating Facility that is interconnected with the Distribution System.

Member's Interconnection Facilities means all facilities and equipment, as identified in the Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Distribution System. Member's Interconnection Facilities are sole use facilities.

Interconnection Deposit/Interconnection Study Deposit/Study Deposit means the cash deposit provided to the Cooperative under these procedures as a prerequisite to the performance of any Interconnection Studies.

Interconnection Facilities means all facilities and equipment owned, controlled, or operated by the Cooperative from the Point of Change of Ownership to the Point of Interconnection as identified in the Interconnection Agreement, including any modifications, additions or upgrades to such facilities and equipment. Cooperative's Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades. Interconnection Facilities also include all facilities, equipment and related operational requirements owned, controlled or operated by Affected Systems or Interconnected Systems that are required as a result of the interconnection project.

Interconnection Service means the service provided by the Cooperative associated with interconnecting the Member's Generating Facility to the Distribution System and enabling it to receive electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of the Interconnection Agreement.

Interconnection Study means any technical study required by the Cooperative to facilitate the interconnection requirements.

Interconnection Study Agreement/Study Agreement means the agreement entered into by the Member and the Cooperative which sets forth the Parties' agreement regarding the performance of Interconnection Studies.

Material Modification means a modification that has a material impact on the cost or timing of any Interconnection Application or any other deemed complete interconnection request to the Cooperative with a later queue priority date.

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

NERC means the North American Electric Reliability Corporation or its successor organization.

Network Upgrades means additions, modifications, and upgrades to the transmission facilities owned by an Interconnected System. Notice of Dispute means a written notice of a dispute or claim that arises out of or in connection with these Generator Interconnection Procedures, or Interconnection Agreement or its performance.

Party or Parties means the Cooperative and Member.

Point of Change of Ownership means the point, as set forth in the Interconnection Agreement, where the Member's Interconnection Facilities connect to the Cooperative's Interconnection Facilities.

Point of Interconnection means the point where the Interconnection Facilities connect with the Distribution System.

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

Queue Position means the order of a deemed complete Interconnection Application, relative to all other pending deemed complete Interconnection Applications, that is established based upon the date and time of the Cooperative's receipt of the deemed complete Interconnection Application.

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

Trial Operation means the period during which the Member is engaged in on-site test operations and commissioning of the Generating Facility prior to Commercial Operation.

Uncontrollable Force means any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm, flood, earthquake, explosion, breakage or accident to machinery or equipment, any curtailment, order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any

other cause beyond the reasonable control of the Cooperative or the Member which could not be avoided through the exercise of Prudent Utility Practice. An Uncontrollable Force event does not include acts of negligence or intentional wrongdoing by the Party claiming Uncontrollable Force.

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

ATTACHMENT A

Application for Generation Interconnection



73233 State Route 70 • Portola, CA 96122
(800) 555-2207 • (530) 832-4261 • Fax (530) 832-5761
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Your Touchstone Energy® Cooperative 
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APPLICATION FOR GENERATION INTERCONNECTION

I. APPLICANT CONTACT INFORMATION

Name, address, telephone number and e-mail address of the Interconnection Customer's contact person (primary person who will be contacted regarding this Application):

Name: _____ Title: _____

Company Name: _____

Mailing Address: _____

City, State: _____ Zip Code: _____

Physical Address: _____

City, State: _____ Zip Code: _____

Phone Number: _____ Fax Number: _____

Email Address: _____

DUNS Number: _____ PSREC Account #: _____

Developer (if applicable): _____

II. INSTALLATION COMPANY

Name: _____

Company Phone Number: _____ License # _____

Email Address: _____

A. INTERCONNECTION TYPE

This interconnection request is for (check one):

- A proposed new Generating Facility.
- An increase in the generating capacity or a Material Modification to an existing Generating Facility.

B. POWER EXPORT CATEGORY

- Primarily intended to be less than or equal to consumption (Net Energy Metering or if more than 10KW Co-Energy Metering)
- Power Export

C. INTERCONNECTION PROJECT INFORMATION

1. ADDRESS OR LOCATION, INCLUDING THE COUNTY, OF THE PROPOSED NEW GENERATING FACILITY SITE OR, IN THE CASE OF AN EXISTING GENERATING FACILITY, THE NAME AND SPECIFIC LOCATION, INCLUDING THE COUNTY, OF THE EXISTING GENERATING FACILITY.

Project Name: _____

Project Location: _____

Street Address: _____

City, State: _____ Zip Code: _____

County: _____ GPS Coordinates: _____

2. MAXIMUM NET MEGAWATT ELECTRICAL OUTPUT OF THE PROPOSED NEW GENERATING FACILITY OR THE AMOUNT OF NET MEGAWATT INCREASE IN THE GENERATING CAPACITY OF AN EXISTING GENERATING FACILITY:

Maximum net Megawatt/Kilowatt electrical output (KW/MW):

Summer _____ Winter _____

OR

Net Kilowatt/Megawatt increase (KW/MW):

Summer _____ Winter _____

3. TYPE OF PROJECT (I.E., GAS TURBINE, HYDRO, WIND, ETC.) AND GENERAL DESCRIPTION OF THE EQUIPMENT CONFIGURATION (IF MORE THAN ONE TYPE IS CHOSEN INCLUDE NET KW/MW FOR EACH):

Cogeneration _____ (KW/MW)

Reciprocating Engine _____ (KW/MW)

Biomass _____ (KW/MW)

Steam Turbine _____ (KW/MW)

Gas Turbine _____ (KW/MW)

Wind _____ (KW/MW)

Hydro _____ (KW/MW)

Photovoltaic _____ (KW/MW)

Combined Cycle _____ (KW/MW)

Other (please describe): _____ (KW/MW)

a) GENERAL DESCRIPTION OF THE EQUIPMENT CONFIGURATION (E.G. NUMBER, SIZE, TYPE, ETC): _____

4. PROPOSED IN-SERVICE DATE, TRIAL OPERATION DATE AND COMMERCIAL OPERATION DATE BY DAY, MONTH, YEAR AND TERM OF SERVICE (DATES MUST BE SEQUENTIAL):

Proposed In-Service Date: _____

Proposed Trial Operation Date: _____

Proposed Commercial Operation Date: _____

Proposed Term of Service (years): _____

5. APPROXIMATE LOCATION OF THE PROPOSED POINT OF INTERCONNECTION (I.E., SPECIFY TRANSMISSION FACILITY INTERCONNECTION POINT NAME, VOLTAGE LEVEL, AND THE LOCATION OF INTERCONNECTION): _____

6. INTENDED USE OF THE FACILITY (E.G., SALES INTO THE CAISO), INCLUDING THE BALANCING AREA INTO WHICH THE POWER IS TO BE DELIVERED: _____

7. INTERCONNECTION CUSTOMER GENERATING FACILITY DATA

The Interconnection Customer shall provide to the Cooperative the applicable technical data requested in Appendix 1-A for systems of 25kW or less intended for Net Energy Metering or Co-Energy Metering, or Appendix 1-B for systems of more than 25kW. Two (2) hard copies and one (1) electronic copy are required. If the information requested in the applicable Appendix is not readily available from the manufacturer or supplier

please indicate so in the application form. If additional information is required to process the application, the applicant will be notified.

D. FEES

Application Fee (non-refundable)

- \$250 for systems of 25kW or less intended for Net Energy Metering or Co-Energy Metering.
- \$2,500 for systems of more than 25kW.

Send check to the Cooperative at the address specified in Section F.1 of this Interconnection Application.

System Study Fee

A deposit of funds to cover the expected costs of studies and project evaluation will be necessary before initiation of project studies and related activities. The project applicant/contact will be contacted regarding the necessary deposit amount.

Meter Service Fee (non-refundable)

Will be determined by service type and interconnection type.

E. SITE EXCLUSIVITY

a) PLEASE ATTACH EVIDENCE OF SITE EXCLUSIVITY AND NAME(S), ADDRESS(ES) AND CONTACT INFORMATION OF SITE OWNER(S). SITE EXCLUSIVITY MAY BE DEMONSTRATED THROUGH:

- (1) OWNERSHIP OF, A LEASEHOLD INTEREST IN, OR A RIGHT TO DEVELOP A SITE FOR THE PURPOSE OF CONSTRUCTING THE GENERATING FACILITY; OR
- (2) AN OPTION TO PURCHASE OR ACQUIRE A LEASEHOLD SITE FOR SUCH PURPOSE; OR
- (3) AN EXCLUSIVITY OR OTHER BUSINESS RELATIONSHIP BETWEEN THE INTERCONNECTION CUSTOMER AND THE ENTITY HAVING THE RIGHT TO SELL, LEASE, OR GRANT THE INTERCONNECTION CUSTOMER THE RIGHT TO POSSESS OR OCCUPY A SITE FOR SUCH PURPOSE.

The Cooperative may, in its discretion and on a non-discriminatory and comparable basis, make exceptions to the site exclusivity requirement in individual cases where circumstances merit such an exception.

F. COPIES

1. TWO (2) HARD COPIES AND ONE (1) ELECTRONIC COPY OF THIS INTERCONNECTION APPLICATION (ALONG WITH THE NON-REFUNDABLE APPLICATION FEE AND OTHER INFORMATION SPECIFIED HEREIN) SHALL BE SUBMITTED TO THE COOPERATIVE AT:

Plumas-Sierra Rural Electric Cooperative
Interconnection Requests
73233 State Route 70
Portola, CA 96122

G. ADDITIONAL INFORMATION/COMMENTS

H. THIS INTERCONNECTION APPLICATION IS SUBMITTED BY

Legal/Company name of the Interconnection Customer: _____

Name (type or print): _____

Signature: _____ Date: _____

Title: _____

If the above signed Party chooses to submit documents containing electronic signature(s), the Party waives any objection to the electronic signature by electing the option to do so.

Communications and correspondence regarding this Interconnection Application may be in the form of emails to the email address provided by the Interconnection Applicant in Section I.

III. APPENDIX 1-A FOR SYSTEMS 25kW OR LESS INTENDED FOR NET ENERGY METERING OR CO-ENERGY METERING

A. GENERATING FACILITY DATA

Provide two (2) hard copies and one (1) electronic copy of this Appendix 1-A with the Interconnection Application.

B. SITE DRAWINGS

1. SITE DRAWING, TO SCALE, SHOWING GENERATOR LOCATION AND POINT OF INTERCONNECTION WITH THE COOPERATIVE DISTRIBUTION SYSTEM.
2. SINGLE-LINE DIAGRAM SHOWING APPLICABLE EQUIPMENT SUCH AS GENERATING UNITS, SWITCHES/DISCONNECTS OF THE PROPOSED INTERCONNECTION, INCLUDING THE REQUIRED PROTECTION DEVICES AND CIRCUIT BREAKERS.

C. GENERATING FACILITY INFORMATION

1. TOTAL GENERATING FACILITY RATED OUTPUT (KW_{DC}): _____
2. NUMBER OF GENERATING UNITS: _____

(Please repeat the following items for each generator)

3. INDIVIDUAL GENERATOR RATED OUTPUT (KW_{DC} FOR EACH UNIT): _____
4. GENERATOR MANUFACTURER: _____
5. GENERATOR MODEL NUMBER: _____
6. INVERTER EFFICIENCY RATING: _____
7. INVERTER MANUFACTURER: _____
8. INVERTER MODEL NUMBER: _____
9. NUMBER OF INVERTER UNITS: _____

IV. APPENDIX 1-B FOR SYSTEMS MORE THAN 25kW.

A. GENERATING FACILITY DATA

Provide two (2) hard copies and one (1) electronic copy of this Appendix 1-B with the Interconnection Application.

B. SITE DRAWINGS

1. SITE DRAWING TO SCALE, SHOWING GENERATOR LOCATION AND POINT OF INTERCONNECTION WITH THE COOPERATIVE DISTRIBUTION SYSTEM.
2. SINGLE-LINE DIAGRAM SHOWING APPLICABLE EQUIPMENT SUCH AS GENERATING UNITS, STEP-UP TRANSFORMERS, AUXILIARY TRANSFORMERS, SWITCHES/DISCONNECTS OF THE PROPOSED INTERCONNECTION, INCLUDING THE REQUIRED PROTECTION DEVICES AND CIRCUIT BREAKERS. FOR WIND AND PHOTOVOLTAIC GENERATOR PLANTS, THE ONE LINE DIAGRAM SHOULD INCLUDE THE DISTRIBUTION LINES CONNECTING THE VARIOUS GROUPS OF GENERATING UNITS, THE GENERATOR CAPACITOR BANKS, THE STEP UP TRANSFORMERS, THE DISTRIBUTION LINES, AND THE SUBSTATION TRANSFORMERS AND CAPACITOR BANKS AT THE POINT OF INTERCONNECTION WITH THE COOPERATIVE DISTRIBUTION SYSTEM.

C. GENERATING FACILITY INFORMATION

1. TOTAL GENERATING FACILITY RATED OUTPUT (KW/MW): _____
2. GENERATING FACILITY AUXILIARY LOAD (KW/MW): _____
3. GENERATING FACILITY NET CAPACITY (A-B) (KW/MW): _____
4. STANDBY LOAD WHEN GENERATING FACILITY IS OFF-LINE (KW/MW): _____
5. NUMBER OF GENERATING UNITS: _____

(Please repeat the following items for each generator)

6. INDIVIDUAL GENERATOR RATED OUTPUT (KW/MW FOR EACH UNIT): _____
7. MANUFACTURER: _____
8. YEAR MANUFACTURED: _____
9. NOMINAL TERMINAL VOLTAGE (KV): _____
10. RATED POWER FACTOR (%): _____
11. TYPE (INDUCTION, SYNCHRONOUS, D.C. WITH INVERTER): _____
12. PHASE (THREE PHASE OR SINGLE PHASE): _____
13. CONNECTION (DELTA, GROUNDED WYE, UNGROUNDED WYE, IMPEDANCE GROUNDED): _____
14. GENERATOR VOLTAGE REGULATION RANGE (+/- %): _____
15. GENERATOR POWER FACTOR REGULATION RANGE: _____

16. FOR COMBINED CYCLE PLANTS, SPECIFY THE PLANT NET OUTPUT CAPACITY (KW/MW) FOR AN OUTAGE OF THE STEAM TURBINE OR AN OUTAGE OF A SINGLE COMBUSTION TURBINE: _____

D. SYNCHRONOUS GENERATOR – GENERAL INFORMATION

(Please repeat the following for each generator model)

1. RATED GENERATOR SPEED (RPM): _____
2. RATED MVA: _____
3. RATED GENERATOR POWER FACTOR: _____
4. GENERATOR EFFICIENCY AT RATED LOAD (%): _____
5. MOMENT OF INERTIA (INCLUDING PRIME MOVER): _____
6. INERTIA TIME CONSTANT (ON MACHINE BASE) H: _____ SEC OR MJ/MVA
7. SCR (SHORT-CIRCUIT RATIO - THE RATIO OF THE FIELD CURRENT REQUIRED FOR RATED OPEN-CIRCUIT VOLTAGE TO THE FIELD CURRENT REQUIRED FOR RATED SHORT-CIRCUIT CURRENT): _____
8. PLEASE ATTACH GENERATOR REACTIVE CAPABILITY CURVES.
9. RATED HYDROGEN COOLING PRESSURE IN PSIG (STEAM UNITS ONLY): _____
10. PLEASE ATTACH A PLOT OF GENERATOR TERMINAL VOLTAGE VERSUS FIELD CURRENT THAT SHOWS THE AIR GAP LINE, THE OPEN-CIRCUIT SATURATION CURVE, AND THE SATURATION CURVE AT FULL LOAD AND RATED POWER FACTOR.

E. EXCITATION SYSTEM INFORMATION

(Please repeat the following for each generator model)

1. INDICATE THE MANUFACTURER AND TYPE OF EXCITATION SYSTEM USED FOR THE GENERATOR. FOR EXCITER TYPE, PLEASE CHOOSE FROM A TO I BELOW OR DESCRIBE THE SPECIFIC EXCITATION SYSTEM:
 - a) ROTATING DC COMMUTATOR EXCITER WITH CONTINUOUSLY ACTING REGULATOR. THE REGULATOR POWER SOURCE IS INDEPENDENT OF THE GENERATOR TERMINAL VOLTAGE AND CURRENT.
 - b) ROTATING DC COMMUTATOR EXCITER WITH CONTINUOUSLY ACTING REGULATOR. THE REGULATOR POWER SOURCE IS BUS FED FROM THE GENERATOR TERMINAL VOLTAGE.
 - c) ROTATING DC COMMUTATOR EXCITER WITH NON-CONTINUOUSLY ACTING REGULATOR (I.E., REGULATOR ADJUSTMENTS ARE MADE IN DISCRETE INCREMENTS).

- d) ROTATING AC ALTERNATOR EXCITER WITH NON-CONTROLLED (DIODE) RECTIFIERS. THE REGULATOR POWER SOURCE IS INDEPENDENT OF THE GENERATOR TERMINAL VOLTAGE AND CURRENT (NOT BUS-FED).
- e) ROTATING AC ALTERNATOR EXCITER WITH CONTROLLED (THYRISTOR) RECTIFIERS. THE REGULATOR POWER SOURCE IS FED FROM THE EXCITER OUTPUT VOLTAGE.
- f) ROTATING AC ALTERNATOR EXCITER WITH CONTROLLED (THYRISTOR) RECTIFIERS.
- g) STATIC EXCITER WITH CONTROLLED (THYRISTOR) RECTIFIERS. THE REGULATOR POWER SOURCE IS BUS-FED FROM THE GENERATOR TERMINAL VOLTAGE.
- h) STATIC EXCITER WITH CONTROLLED (THYRISTOR) RECTIFIERS. THE REGULATOR POWER SOURCE IS BUS-FED FROM A COMBINATION OF GENERATOR TERMINAL VOLTAGE AND CURRENT (COMPOUND-SOURCE CONTROLLED RECTIFIERS SYSTEM).
- i) OTHER (SPECIFY): _____
- j) ATTACH A COPY OF THE BLOCK DIAGRAM OF THE EXCITATION SYSTEM FROM ITS INSTRUCTION MANUAL. THE DIAGRAM SHOULD SHOW THE INPUT, OUTPUT, AND ALL FEEDBACK LOOPS OF THE EXCITATION SYSTEM.
- k) EXCITATION SYSTEM RESPONSE RATIO (ASA): _____
- l) FULL LOAD RATED EXCITER OUTPUT VOLTAGE: _____
- m) MAXIMUM EXCITER OUTPUT VOLTAGE (CEILING VOLTAGE): _____
- n) OTHER COMMENTS REGARDING THE EXCITATION SYSTEM: _____

F. POWER SYSTEM STABILIZER INFORMATION

(PLEASE REPEAT THE FOLLOWING FOR EACH GENERATOR MODEL. ALL NEW GENERATORS ARE REQUIRED TO INSTALL PSS UNLESS AN EXEMPTION HAS BEEN OBTAINED FROM WECC. SUCH AN EXEMPTION CAN BE OBTAINED FOR UNITS THAT DO NOT HAVE SUITABLE EXCITATION SYSTEMS.)

- 1. MANUFACTURER: _____
- 2. IS THE PSS DIGITAL OR ANALOG? _____

3. NOTE THE INPUT SIGNAL SOURCE FOR THE PSS:
 - a) BUS FREQUENCY
 - b) SHAFT SPEED
 - c) BUS VOLTAGE
 - d) OTHER (SPECIFY SOURCE): _____
 4. PLEASE ATTACH A COPY OF A BLOCK DIAGRAM OF THE PSS AND THE CORRESPONDENCE BETWEEN DIAL SETTINGS AND THE TIME CONSTANTS OR PSS GAIN.
 5. OTHER COMMENTS REGARDING THE PSS: _____
-

G. TURBINE-GOVERNOR INFORMATION

(Please repeat the following for each generator model)

Please complete Part 1. for steam, gas or combined-cycle turbines, Part 2. for hydro turbines, and Part 3. for both.

1. STEAM, GAS OR COMBINED-CYCLE TURBINES.
 - a) LIST TYPE OF UNIT (STEAM, GAS, OR COMBINED-CYCLE): _____
 - b) IF STEAM OR COMBINED-CYCLE, DOES THE TURBINE SYSTEM HAVE A REHEAT PROCESS (I.E., BOTH HIGH AND LOW PRESSURE TURBINES)? _____
 - c) IF STEAM WITH REHEAT PROCESS, OR IF COMBINED-CYCLE, INDICATE IN THE SPACE PROVIDED, THE PERCENT OF FULL LOAD POWER PRODUCED BY EACH TURBINE:

 - d) LOW PRESSURE TURBINE OR GAS TURBINE: _____%
 - e) HIGH PRESSURE TURBINE OR STEAM TURBINE: _____%
2. HYDRO TURBINES.
 - a) TURBINE EFFICIENCY AT RATED LOAD: _____%
 - b) LENGTH OF PENSTOCK: _____ FT
 - c) AVERAGE CROSS-SECTIONAL AREA OF THE PENSTOCK: _____ FT²

- d) TYPICAL MAXIMUM HEAD (VERTICAL DISTANCE FROM THE BOTTOM OF THE PENSTOCK, AT THE GATE, TO THE WATER LEVEL): _____ FT
- e) IS THE WATER SUPPLY RUN-OF-THE-RIVER OR RESERVOIR: _____
- f) WATER FLOW RATE AT THE TYPICAL MAXIMUM HEAD: _____ FT³/SEC
- g) AVERAGE ENERGY RATE: _____ KW-HRS/ACRE-FT
- h) ESTIMATED YEARLY ENERGY PRODUCTION: _____ KW-HRS

3. COMPLETE THIS SECTION FOR EACH MACHINE, INDEPENDENT OF THE TURBINE TYPE.

- a) TURBINE MANUFACTURER: _____
- b) MAXIMUM TURBINE POWER OUTPUT: _____ KW/MW
- c) MINIMUM TURBINE POWER OUTPUT (WHILE ON LINE): _____ KW/MW
- d) GOVERNOR INFORMATION:
 - (1) DROOP SETTING (SPEED REGULATION): _____
 - (2) IS THE GOVERNOR MECHANICAL-HYDRAULIC OR ELECTRO-HYDRAULIC (ELECTRO-HYDRAULIC GOVERNORS HAVE AN ELECTRONIC SPEED SENSOR AND TRANSDUCER.)? _____
 - (3) OTHER COMMENTS REGARDING THE TURBINE GOVERNOR SYSTEM: _____

H. INDUCTION GENERATOR DATA

- 1. RATED GENERATOR POWER FACTOR AT RATED LOAD: _____
- 2. MOMENT OF INERTIA (INCLUDING PRIME MOVER): _____
- 3. DO YOU WANT RECLOSE BLOCKING? YES NO

Note: Sufficient capacitance may be on the line now, or in the future, and the generator may self-excite unexpectedly.

I. GENERATOR SHORT CIRCUIT DATA

- 1. FOR EACH GENERATOR MODEL, PROVIDE THE FOLLOWING REACTANCES EXPRESSED IN P.U. ON THE GENERATOR BASE:

- a) POSITIVE SEQUENCE SUBTRANSIENT REACTANCE: _____

- b) NEGATIVE SEQUENCE REACTANCE: _____ P.U.
- c) ZERO SEQUENCE REACTANCE: _____

2. GENERATOR GROUNDING (SELECT 1 FOR EACH MODEL):

- a) SOLIDLY GROUNDED
- b) GROUNDED THROUGH AN IMPEDANCE (IMPEDANCE VALUE IN P.U. ON GENERATOR BASE (R: _____ P.U. X: _____ P.U.): _____)
- c) UNGROUNDED

J. STEP-UP TRANSFORMER DATA

For each step-up transformer, fill out the data form provided in Table 1 below.

K. INTERCONNECTION FACILITIES LINE DATA

1. THERE IS NO NEED TO PROVIDE DATA FOR NEW LINES THAT ARE TO BE PLANNED BY THE PARTICIPATING TRANSMISSION OWNER. HOWEVER, FOR TRANSMISSION LINES THAT ARE TO BE PLANNED BY THE GENERATION DEVELOPER, PLEASE PROVIDE THE FOLLOWING INFORMATION:

- Nominal Voltage: _____ kV
- Line Length: _____ miles
- Line termination Points: _____
- Conductor Type: _____
- Size: _____
- If bundled, Number per phase: _____, Bundle spacing: _____ in.
- Phase Configuration: Vertical: _____, Horizontal: _____
- Phase Spacing: A-B: _____ ft., B-C: _____ ft., C-A: _____ ft.
- Distance of lowest conductor to Ground at full load and 40 C: _____ ft
- Ground Wire Type: _____, Size: _____, Distance to Ground: _____ ft
- Attach Tower Configuration Diagram
- Summer line ratings in amperes (normal and emergency): _____
- Positive Sequence Resistance (R): _____ p.u. ** (for entire line length)

Positive Sequence Reactance (X): ___ p.u. ** (for entire line length)

Zero Sequence Resistance (R0): _____ p.u. ** (for entire line length)

Zero Sequence Reactance: (X0): ___ p.u. ** (for entire line length)

Line Charging (B/2): _____ p.u. **

** On 100-MVA and nominal line voltage (kV) Base

2. FOR WIND/PHOTOVOLTAIC PLANTS, PROVIDE COLLECTOR SYSTEM EQUIVALENCE IMPEDANCE DATA AND INVERTER INFORMATION

Provide values for each equivalence collector circuit at all voltage levels.

Nominal Voltage: _____

Summer line ratings in amperes (normal and emergency): _____

Positive Sequence Resistance (R1): _____ p.u. ** (for entire line length of each collector circuit)

Positive Sequence Reactance: (X1): _____ p.u. ** (for entire line length of each collector circuit)

Zero Sequence Resistance (R0): _____ p.u. ** (for entire line length of each collector circuit)

Zero Sequence Reactance: (X0): _____ p.u. ** (for entire line length of each collector circuit)

Line Charging (B/2): _____ p.u. ** (for entire line length of each collector circuit)

Inverter manufacturer, model name, number, and version: _____

List of adjustable set points for the protective equipment or software:

Field Volts: _____

Field Amperes: _____

Reactive Power Production Capability in Vars: _____

** On 100-MVA and nominal line voltage (kV) Base

3. WIND GENERATORS

Number of generators to be interconnected pursuant to this Interconnection Application: _____

Average Site Elevation: _____ Single Phase Three Phase

Inverter manufacturer, model name, number, and version: _____

List of adjustable set points for the protective equipment or software:

Field Volts: _____

Field Amperes: _____

Motoring Power (KW/MW): _____

Neutral Grounding Resistor (If Applicable): _____

I22t 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 100 MVA Base

THE COOPERATIVE MAY ALSO REQUIRE LOAD FLOW MODEL INFORMATION FOR THE GENERATING PLANT AND INTERCONNECTION FACILITIES. ADDITIONAL DATA REQUIREMENTS WILL BE IDENTIFIED AND PROVIDED TO THE APPLICANT AFTER INITIAL REVIEW OF THE APPLICATION AND RELATED INFORMATION.

V. TABLE 1

TRANSFORMER DATA

(Provide for each level of transformation)

UNIT: _____

NUMBER OF TRANSFORMERS: _____

PHASE RATING: _____ H Winding, _____ X Winding, _____ Y Winding

Rated MVA: _____

Connection (Delta, Wye, Gnd.): _____

Cooling Type (OA, OA/FA, etc): _____

Temperature Rise Rating: _____

Rated Voltage: _____

BIL: _____

Available Taps (% of rating): _____

Load Tap Changer? (Y or N): _____

Tap Settings: _____

IMPEDANCE: _____ H-X, _____ H-Y, _____ X-Y

Percent: _____

MVA Base: _____

Tested Taps: _____

WINDING RESISTANCE: _____

Ohms: _____

CURRENT TRANSFORMER RATIOS: _____

Percent exciting current at 100% Voltage: _____, 110% Voltage: _____

Supply copy of nameplate and manufacture's test report when available.

ATTACHMENT B

Interconnection Study Agreement



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INTERCONNECTION STUDY AGREEMENT

This Interconnection Study Agreement (Agreement) is made and entered into on this ____ day of _____, 20____, by Plumas Sierra Rural Electric Cooperative, (Cooperative), and _____ (Interconnection Customer). Cooperative and Interconnection Customer are each hereinafter sometimes referred to individually as “Party” or collectively as the “Parties”. When used in this Agreement with initial capitalization, the terms specified shall have the meanings indicated in the Cooperative Distribution System Generator Interconnection Procedures (Interconnection Procedures). This study agreement is subject to the Cooperative’s Interconnection Procedures, and shall be construed consistently therewith.

In consideration of the premises hereof, and the covenants and conditions contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Cooperative and Interconnection Customer, intending to be legally bound, hereby agree as follows:

1.0 Interconnection Customer has requested the Cooperative to perform Interconnection Studies to assess the proposed interconnection of the Generating Facility to the Cooperative Distribution System, and to specify and estimate the cost of the equipment, engineering, procurement and construction work needed to physically and electrically connect the Generating Facility to the Cooperative Distribution System in accordance with Prudent Utility Practice. The Cooperative agrees it shall cause such Interconnection Studies to be performed at the Interconnection Customer’s sole cost and expense.

2.0 The scope of the Interconnection Studies shall be subject to any assumptions and parameters set forth in Appendix A to this Agreement.

3.0 The Interconnection Studies will be based upon the technical information provided by Interconnection Customer in the Interconnection Application and the Scoping Meeting. The Interconnection Customer shall provide Cooperative with any additional technical information requested by the Cooperative that may reasonably become necessary, consistent with Prudent Utility Practice, during the course of the Interconnection Studies. If Interconnection Customer modifies its Interconnection Application, the technical information provided therein, or the designated Point of Interconnection, the Interconnection Studies may be modified as specified in the Interconnection Procedures, and the Interconnection Customer shall bear all costs for such modifications, provided that the modified Interconnection Application does not constitute a new Interconnection Application as provided in the Interconnection Procedures, in which case, the terms of the new Interconnection Study Agreement entered into pursuant to the new application shall control.

4.0 Substantial portions of technical data and assumptions used to perform the Interconnection Studies, such as system conditions, existing and planned generation, and unit modeling, may change after the Cooperative provides the Interconnection Studies results to the Interconnection Customer. Interconnection Studies results will reflect data available at the time the Cooperative provides the Interconnection Study report(s) to the Interconnection Customer. An Interconnection Agreement shall set forth the rates, terms, and conditions, including the allocation of the costs of construction of any upgrades, in connection with the interconnection of generation.

5.0 The Cooperative shall invoice the Interconnection Customer for the actual costs of the Interconnection Studies in accordance with the requirements of Section VI of the Interconnection Procedures, and the Interconnection Customer shall pay such invoices in accordance with that Section of the Interconnection Procedures.

6.0 The Cooperative and Interconnection Customer each agree to be bound by all applicable provisions of the Interconnection Procedures, including those applicable to Dispute Resolution and Uncontrollable Force.

7.0 This 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.

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

8.1 Any waiver at any time by either Party of its rights with respect to this 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 this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from the Transmission Provider. Any waiver of this Agreement shall, if requested, be provided in writing.

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

10.0 No Partnership: This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

11.0 Severability: If any provision or portion of this 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 this Agreement shall remain in full force and effect.

12.0 Subcontractors: Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

13.0 Notwithstanding any other provision in this Agreement, the Transmission Provider shall have the right unilaterally to make a change in rates, charges, classification of service, or any rule, regulation, or Service Agreement related thereto. The Transmission Provider will notify current Interconnection Customer thirty (30) days before a change becomes effective.

14.0 This Agreement shall become effective upon the date the fully executed Agreement is received by the Cooperative.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives as of the date first set forth above.

COOPERATIVE

Name

Title

Date

INTERCONNECTION CUSTOMER

Name

Title

Date

APPENDIX A

Study Assumptions and Parameters

[List Study Assumptions and Parameters]

ATTACHMENT C

Pro Forma Interconnection Agreement



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GENERATOR INTERCONNECTION AGREEMENT

This Generator Interconnection Agreement (Agreement) is made and entered into this ____ day of _____, 20__, by Plumas-Sierra Rural Electric Cooperative, [a Cooperative organized and existing under the laws of the State of California] (Cooperative), and _____ (Interconnection Customer). Cooperative and Interconnection Customer are each hereinafter sometimes referred to individually as “Party” or collectively as the “Parties.”

In consideration of the premises hereof, and the covenants and conditions contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Cooperative and Interconnection Customer: intending to be legally bound, hereby agree as follows.

Article 1. Scope and Limitations of Agreement

1.1 Scope

This Agreement shall be used for Interconnection Applications of more than 25kW submitted under the Cooperative’s Interconnection of Distributed Resources Policy and Procedures Manual.

1.2 Purpose

This Agreement governs the terms and conditions under which the Interconnection Customer’s Generating Facility will interconnect with, and operate in parallel with, the Cooperative’s Distribution System.

1.3 No Purchase or Transmission Rights

This Agreement does not constitute an agreement to purchase or deliver any output or other services produced by the Generating Facility. The purchase or delivery of energy and other services that the Interconnection Customer may require will be covered under separate agreements, if any. The Interconnection Customer will be responsible for separately making all necessary arrangements (including scheduling) for delivery of electricity.

1.4 No Effect

Nothing in this Agreement is intended to affect any other agreement between or among the Parties.

1.5 Responsibilities of the Parties

1.5.1 The Parties shall perform all obligations of this Agreement in accordance with all Applicable Laws and Regulations, Operating Requirements, and Prudent Utility Practice.

1.5.2 The Interconnection Customer shall interconnect, operate and maintain its Generating Facility and construct, operate, and maintain the Interconnection Customer's Interconnection Facilities in accordance with the applicable manufacturer's recommended maintenance schedule, and in accordance with this Agreement and with Prudent Utility Practice.

1.5.3 Cooperative shall construct, operate, and maintain its Interconnection Facilities and Cooperative Distribution Upgrades in accordance with this Agreement and with Prudent Utility Practice. Cooperative shall cause the Cooperative Distribution System to be operated, maintained and controlled in a safe and reliable manner and in accordance with this Agreement and with Prudent Utility Practice.

1.5.4 The Interconnection Customer agrees to construct the Interconnection Customer's Interconnection Facilities in accordance with applicable specifications that meet or exceed those provided by the National Electrical Safety Code, the American National Standards Institute, IEEE, Underwriter's Laboratory, and Operating Requirements in effect at the time of construction and other applicable national and state codes and standards. The Interconnection Customer agrees to design, install, maintain, and operate its Generating Facility so as to reasonably minimize the likelihood of a disturbance adversely affecting or impairing the system or equipment of the Cooperative or Interconnected Systems. [The Interconnection Customer shall comply with the Distribution Provider's Interconnection Procedures Manual. In the event of a conflict between the terms of this Agreement and the terms of the Distribution Provider's Interconnection Procedures Manual, the terms in this Agreement shall govern.] Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now or subsequently may own unless otherwise specified in the Attachments to this Agreement. 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 change of ownership. The Cooperative and the Interconnection Customer, as appropriate, shall provide Interconnection Facilities that adequately protect the Distribution System, personnel, and other persons from damage and injury. The allocation of responsibility for the design, installation, operation, maintenance and ownership of Interconnection Facilities shall be delineated in the Attachments to this Agreement.

1.5.5 The Parties shall reasonably cooperate with each other to implement and support the purposes of this Agreement and the interconnection of the Generating Facility. If applicable, the Interconnection Customer shall, at its cost and expense, secure and maintain a Participating Generator Agreement and Meter Service Agreement with the CAISO or similar agreement with another applicable Balancing Authority Area for the Generating Facility, and shall comply with all applicable rules, regulations, and Operating Requirements. The Interconnection Customer shall provide a copy of any such agreements, as soon as such agreements are executed, but in any event prior to delivery of any energy from the Generating Facility.

1.5.6 If the Interconnection Customer fails to comply with its obligations pursuant to Sections 1.5.2 or 1.5.4, the Interconnection Customer will be responsible to make any repairs or modifications to the Interconnection Customer's Interconnection Facilities or the Generating Facility necessary to comply with such

obligations, and will be responsible for all costs related to actions taken, including the repair or construction of new Distribution Upgrades or Interconnection Facilities that are necessary to resolve or correct adverse impacts to the Distribution System, the Cooperative Interconnection Facilities, or an Interconnected System resulting from the Interconnection Customer's failure to make any such repairs or modifications, or the failure of such repairs or modifications to resolve or correct such adverse impacts.

1.6 Parallel Operation Obligations

Once the Generating Facility has been authorized to commence parallel operation, the Interconnection Customer shall abide by all rules and procedures pertaining to the parallel operation of the Generating Facility in the CAISO Balancing Authority Area, including the rules and procedures concerning the operation of generation, as may be amended from time to time, set forth in the Operating Requirements set forth in Attachment 5 to this Agreement for the Cooperative Distribution System.

1.7 Metering

The Interconnection Customer shall be responsible for the Cooperative's reasonable and necessary costs for the purchase, installation, operation, maintenance, testing, repair, and replacement of metering and data acquisition equipment consistent with all requirements of the CAISO or other applicable Balancing Authority Area and any related agreements, such as the CAISO Participating Generator Agreement, the CAISO Meter Service Agreement and Operating Requirements.

1.8 Reactive Power

The Interconnection Customer shall design its Generating Facility to maintain a composite power delivery at continuous rated power output at the terminals of each generating unit at a power factor within the range of 0.95 leading to 0.95 lagging, unless the CAISO has established different requirements that apply to all similarly situated generators in the Balancing Authority Area on a comparable basis. The requirements of this paragraph shall not apply to wind generators. The Cooperative shall not be responsible for any reactive power (VAR) costs related to the interconnection of the Generating Facility and will pass through any such costs it incurs as a result of the interconnection to the Interconnection Customer.

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

2.1 Equipment Testing and Inspection; Interconnection

2.1.1 The Interconnection Customer shall test and inspect the Generating Facility and the Interconnection Facilities prior to interconnection. The Interconnection Customer shall notify Cooperative of such testing and inspection activities no fewer than 15 Business Days (or as may be agreed to by the Parties) prior to performing such testing and inspection. Testing and inspection shall occur on a Business Day. Cooperative may, at its own cost and expense, send qualified personnel to the Generating Facility site to inspect the interconnection and observe the testing.

2.1.2 The Interconnection Customer shall provide Cooperative a written test report when such testing and inspection is completed, and Cooperative shall acknowledge receipt of the Interconnection Customer's written test report in writing. Such written acknowledgment shall not be deemed to be or construed as any representation, assurance, guarantee, or warranty by Cooperative of the safety, durability, suitability, or reliability of the Generating Facility or any associated control, protective, and safety devices owned or controlled by the Interconnection Customer, or of the quality of power produced by the Generating Facility.

2.1.3 The Interconnection Customer shall give Cooperative no less than 5 Business Days advance written notice when the Interconnection Customer's Interconnection Facilities are ready to interconnect to the Cooperative Interconnection Facilities at the Interconnect Point. Cooperative shall notify the Interconnection Customer when Cooperative will interconnect the Interconnection Customer's Interconnection Facilities with the Cooperative Interconnection Facilities at the Interconnect Point, which in any event shall be on a Business Day (unless both Parties agree otherwise). Cooperative will use Reasonable Efforts to complete such interconnection within no longer than 5 Business Days from the date of Interconnection Customer's written notice.

2.1.4 Each Party shall, at its own expense, perform routine inspection and testing of its facilities and equipment in accordance with Prudent Utility Practice as may be necessary to ensure the continued interconnection of the Generating Facility with the Distribution System in a safe and reliable manner. Each Party shall have the right, upon advance written notice to require reasonable additional testing of the other Party's facilities, at the requesting Party's expense, as may be in accordance with Prudent Utility Practice.

2.2 Authorization Required Prior to Parallel Operation

2.2.1 Cooperative shall use Reasonable Efforts to list applicable parallel Operating Requirements in Attachment 5 of this Agreement. Additionally, Cooperative shall notify the Interconnection Customer of any changes to the Operating Requirements as soon as Cooperative knows that such changes have occurred. Cooperative shall make Reasonable Efforts to cooperate with the Interconnection Customer in meeting requirements necessary for the Interconnection Customer to commence parallel operations by the Commercial Operations Date.

2.2.2 The Interconnection Customer shall not operate its Generating Facility in parallel with the Cooperative Distribution System without prior written authorization of Cooperative. Cooperative will provide such authorization to the Interconnection Customer once Cooperative receives notification that the Interconnection Customer has complied with all applicable parallel operation requirements and receives any necessary authorization from Interconnected Systems. Such Cooperative authorization shall not be unreasonably withheld, conditioned, or delayed.

2.3 Right of Access

2.3.1 Upon reasonable notice, Cooperative may send a qualified person to the premises of the Interconnection Customer at or immediately before the time the Generating Facility first produces energy to inspect the interconnection, and observe the commissioning of the Generating Facility (including any required testing), startup, and operation for a period of up to 5 Business Days after initial start-up of the Generating Facility.

In addition, once startup and initial operation are completed, the Interconnection Customer shall notify Cooperative at least 5 Business Days prior to conducting any on-site verification testing of the Generating Facility.

2.3.2 Following the initial inspection process described above, at reasonable hours, and upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, Cooperative shall be allowed access to the Interconnection Customer's premises for any reasonable purpose in connection with the performance of the obligations imposed on Cooperative by this Agreement, if necessary to meet Cooperative's obligation to provide service to its customers, or to verify that Interconnection Customer is operating the Generating Facility in compliance with the requirements of this Agreement.

2.3.3 Each Party shall be responsible for its own costs associated with exercising its rights under this Section 2.3.

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

3.1 Effective Date; Term

This Agreement shall become effective upon execution by the Parties, and shall remain in effect for a period of 10 years from such date, or such other longer period as the Interconnection Customer and Cooperative may agree upon. This Agreement shall be automatically renewed, subject to Generation Facility inspection, for each successive one-year period thereafter, unless terminated earlier in accordance with article 3.2 of this Agreement.

3.2 Termination

No termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination.

3.2.1 The Interconnection Customer may terminate this Agreement at any time by giving Cooperative no less than 20 Business Days written notice.

3.2.2 Either Party may terminate this Agreement after Default pursuant to Section 7.5.

3.2.3 Upon termination of this Agreement, Cooperative shall disconnect the Interconnection Customer's Interconnection Facilities and the Generating Facility from the Cooperative Interconnection Facilities. All costs required to physically disconnect the Interconnection Customer's Interconnection Facilities and the Generating Facility from the Cooperative Interconnection Facilities shall be borne by the Party that is in Default under this Agreement, if any, or otherwise by the terminating Party. If such costs are to be borne by the Interconnection Customer, Cooperative shall prepare and submit an invoice for reimbursement of such costs to the Interconnection Customer, and Interconnection Customer shall pay all such undisputed costs within 30 days of receipt.

3.2.4 The termination of this Agreement shall not relieve any Party of its liabilities and obligations that have accrued prior to the date of termination.

3.2.5 The provisions of this Section 3.2 shall survive termination or expiration of this Agreement.

3.3 Temporary Disconnection

Temporary disconnection of the Generating Facility or the Interconnection Customer's Interconnection Facilities shall continue only for so long as reasonably necessary under Prudent Utility Practice.

3.3.1 Emergency Conditions

"Emergency Condition" shall mean a condition or situation: (1) that in the reasonable judgment of the Party making the claim is imminently likely to endanger life or property; (2) that, in the case of an Interconnected System, is imminently likely (as determined by the Cooperative or the Interconnected System, in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Interconnected System, (3) that, in the case of Cooperative, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Cooperative Distribution System or Cooperative Interconnection Facilities; or (4) that in the case of the Interconnection Customer is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or the Interconnection Customer's Interconnection Facilities. Under Emergency Conditions, Cooperative may immediately suspend interconnection service and temporarily disconnect the Generating Facility. Cooperative shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Interconnection Customer's operation of the Generating Facility or the Interconnection Customer's Interconnection Facilities. The Interconnection Customer shall notify Cooperative and, if applicable, the Interconnected Systems promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Cooperative Interconnection Facilities, the Cooperative Distribution System or any Interconnected Systems. To the extent information is known, a Party's notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of the Interconnection Customer's Interconnection Facilities or the Generating Facility, or the Cooperative Distribution System or Cooperative Interconnection Facilities, as applicable, its anticipated duration, and the corrective action to be taken.

3.3.2 Routine Maintenance, Construction, and Repair

The Cooperative may interrupt interconnection service or curtail the output of the Generating Facility and temporarily disconnect the Generating Facility when necessary for routine maintenance, construction, and repairs on the Cooperative Distribution System. The Party scheduling such maintenance interruption shall provide the Interconnection Customer and Cooperative with 7 Business Days notice, or as soon as reasonably practical, prior to such interruption. The Cooperative shall use Reasonable Efforts to coordinate such reduction or temporary disconnection with the Interconnection Customer.

Cooperative may request that the Interconnection Customer reschedule its planned maintenance as necessary to maintain safety and reliability of the Cooperative Distribution System or Interconnected Systems. Such planned maintenance schedules and updates, and any changes to such schedules, shall be provided by the Interconnection Customer to Cooperative concurrently with any required submittal to the Interconnected Systems.

3.3.3 Forced Outages

During any forced outage, Cooperative may suspend interconnection service as necessary to effect (or to allow an Interconnected System to effect) immediate repairs on the Cooperative Distribution System, or an Interconnected System. To the extent practicable, Cooperative shall use Reasonable Efforts to provide the Interconnection Customer with prior notice. If prior notice is not given, Cooperative shall, upon request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection. The Interconnection Customer shall notify Cooperative as soon as practicable of all forced outages or reductions of the Generating Facility.

3.3.4 Adverse Operating Effects

Cooperative shall notify the Interconnection Customer as soon as practicable if, based on Prudent Utility Practice, operation of the Generating Facility may cause disruption or deterioration of service to other customers served from the Cooperative Distribution System, or if operation of the Generating Facility could cause damage to the Cooperative Distribution System or any Interconnected System. Cooperative shall provide the supporting documentation used to reach the decision to disconnect to the Interconnection Customer upon request. If, after notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time, Cooperative may disconnect the Generating Facility. Cooperative shall provide the Interconnection Customer with no less than 5 Business Days prior written notice of such disconnection, unless the provisions of Section 3.3.1 apply.

3.3.5 Modification of the Generating Facility

The Interconnection Customer shall not modify the Generating Facility in any manner that could reasonably be expected to have a material adverse impact on the safety or reliability of the Cooperative Distribution System or any Interconnected System without the prior written approval of Cooperative, such approval not to be unreasonably withheld or delayed. The Interconnection Customer acknowledges and agrees that it may also be required to obtain the consent of Interconnected Systems. Any permitted modifications to the Generating Facility shall be done in accordance with Prudent Utility Practice. If the Interconnection Customer makes such modification without Cooperative's or any necessary Interconnected System's prior written approval, Cooperative shall have the right to temporarily disconnect the Generating Facility.

3.3.6 Reconnection

The Parties shall reasonably cooperate with each other to restore the Generating Facility, the Interconnection Customer's Interconnection Facilities, the Cooperative Interconnection Facilities and the Cooperative Distribution System to their normal operating state as soon as reasonably practicable following a temporary disconnection.

Article 4. Cooperative Interconnection Facilities and Cooperative Distribution Upgrades

4.1 Interconnection Facilities

4.1.1 The Interconnection Customer shall pay for the cost of the Interconnection Facilities itemized in Attachment 2 of this Agreement. The Cooperative shall provide a best estimate cost, including overheads, for the purchase and construction of the Cooperative Interconnection Facilities and provide a detailed itemization of such costs. Costs associated with Cooperative Interconnection Facilities may be shared with other entities that may benefit from such facilities by agreement of the Interconnection Customer, such other entities, and the Cooperative.

4.1.2 The Interconnection Customer shall be responsible for all reasonable expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its own Interconnection Facilities, and (2) operating, maintaining, repairing, and replacing the Cooperative's Interconnection Facilities.

4.2 Distribution Upgrades

The Cooperative shall design, procure, construct, install, and own the Distribution Upgrades described in Attachment 6 of this Agreement. If the Cooperative and the Interconnection Customer agree, the Interconnection Customer may construct Distribution Upgrades that are located on land owned by the Interconnection Customer. The actual cost of the Distribution Upgrades, including overheads, shall be directly assigned to the Interconnection Customer.

4.3 Future Costs

Interconnection Customers shall have sole financial responsibility for any Interconnection Facilities or Distribution Upgrades determined to be needed by subsequent engineering or study work, including future operational or other technical studies, for the continued interconnection of the Generating Facility with the Distribution System on a safe and reliable basis.

Article 5. Cost Responsibility for Network Upgrades

5.1 Applicability

No portion of this Article 5 shall apply unless the interconnection of the Generating Facility requires Network Upgrades.

5.2 Notice to Interconnected Systems

The Cooperative may, at its sole discretion, notify any Interconnected System of the pending interconnection of the Generating Facility. However, it is the sole responsibility of the Interconnection Customer

to coordinate with any Interconnected System regarding Network Upgrades or other requirements an Interconnected System may impose on the Interconnection Customer related to the interconnection and operation of the Generating Facility.

5.3 Network Upgrades

If the interconnection of the Generating Facility results in any required Network Upgrade on an Interconnected System Interconnection Customer shall enter into an agreement with the owner of the Interconnected System and/or other affected owners of portions of the CAISO Controlled Grid, as applicable. Such agreement shall specify the terms governing payments to be made by the Interconnection Customer to the owner of the Interconnected System and/or other affected owners of portions of the CAISO Controlled Grid. In no event shall Cooperative be responsible for the payment for any Network Upgrades necessitated by the proposed interconnection.

Article 6. Billing, Payment, Milestones, and Financial Security

6.1 Billing and Payment Procedures and Final Accounting

6.1.1 Cooperative shall bill the Interconnection Customer for the design, engineering, construction, and procurement costs of Interconnection Facilities and Distribution Upgrades contemplated by this Agreement on a monthly basis, or as otherwise agreed by the Parties. The Interconnection Customer shall pay each bill within 30 days of receipt, or as otherwise agreed to by the Parties. The Interconnection Customer acknowledges and agrees that any invoice from an Interconnected System or any third party for any Network Upgrades shall be the sole obligation of the Interconnection Customer and Cooperative shall not be responsible in any manner for the delivery of such invoices or payment of such obligations.

6.1.2 Within 6 months of completing the construction and installation of any Cooperative's Interconnection Facilities and/or Distribution Upgrades described in the Attachments to this Agreement, Cooperative shall provide the Interconnection Customer with a final accounting report of (1) the actual costs incurred by Cooperative to procure, construct, install and test such facilities or Distribution Upgrades, and (2) the Interconnection Customer's previous aggregate payments made to Cooperative with respect to such facilities or Distribution Upgrades.

6.1.3 If the actual costs incurred by Cooperative to procure, construct, install and test such facilities or Distribution Upgrades exceeds the aggregate amount of the payments previously made by the Interconnection Customer with respect to such facilities or Distribution Upgrades, Cooperative shall invoice the Interconnection Customer for the amount due, and the Interconnection Customer shall pay such amount within 30 calendar days of the final accounting report.

6.1.4 If the aggregate amount of the payments previously made by the Interconnection Customer with respect to Interconnection Facilities or Distribution Upgrades, exceed the actual costs incurred by Cooperative to procure, construct, install and test such Interconnection Facilities or Distribution Upgrades, Cooperative shall refund to the Interconnection Customer an amount equal to the difference within 30 days of the final accounting report.

6.2 Milestones

The Parties shall agree on milestones for which each Party is responsible and list them in Attachment 4 of this Agreement. A Party's obligations under this provision may be extended by agreement. If a Party anticipates that it will be unable to meet a milestone for any reason other than Force Majeure, it shall promptly notify the other Party (1) of the anticipated delay in meeting such milestone, including a reasonably detailed explanation of the reasons why such Party is unable to achieve such milestone, (2) of the earliest reasonable alternate date by which such Party proposes to achieve such milestone (and any necessary adjustments to future milestones), and (3) of the amendments that it will be necessary to make to Attachment 4 to this Agreement. The Party affected by the failure to meet a milestone shall not unreasonably withhold agreement to an amendment unless (1) such Party will suffer significant uncompensated economic or operational harm from the delay, (2) attainment of the same milestone has previously been delayed, or (3) such Party has reason to believe that the delay in meeting such milestone is intentional or unwarranted, notwithstanding the circumstances explained by the Party proposing the amendment.

6.3 Financial Security Arrangements

Interconnection Customer must provide the Cooperative with financial security for the Interconnection Customer's obligations to fund the design, procurement, installation or construction of the Cooperative's Interconnection Facilities and Distribution Upgrades in accordance with Section 3.4 of the Cooperative's Interconnection Procedures. The Cooperative is not obligated to commence the design, procurement, installation or construction of the Cooperative's Interconnection Facilities and Distribution Upgrades until at least 20 Business Days after Interconnection Customer has provided the required financial security. In addition, the failure by an Interconnection Customer to timely post any and all financial security required under the Cooperative Interconnection Procedures shall constitute grounds for immediate termination of this Agreement.

Article 7. Assignment; Liability; Indemnity; Force Majeure; Consequential Damages; Default

7.1 Assignment

Neither Party shall assign or in any other manner transfer all or any part of this Agreement or its rights and obligations hereunder without the prior written consent of the other Party, not to be unreasonably withheld, conditioned or delayed. Notwithstanding the foregoing:

7.1.1 Interconnection Customer may assign this Agreement without the consent of the Cooperative, but upon no less than 10 Business Days prior written notice, to any affiliate of the Interconnection Customer with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the Interconnection Customer assigning Party under this Agreement;

7.1.2 Interconnection Customer may assign this Agreement without the consent of the Cooperative, but upon no less than 10 Business Days prior written notice, for collateral security purposes to aid in providing financing for the Generating Facility,

7.1.3 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 financial, credit, and insurance obligations as the Interconnection Customer.

7.2 Limitation of Liability

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorneys' fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall any Party be liable to the other Party for any indirect, special, consequential, or punitive damages, except as authorized by this Agreement.

7.3 Indemnity

7.3.1 Each Party (hereafter the "indemnifying Party") shall indemnify, defend, and hold the other Party (hereafter the "indemnified Party") harmless from, any and all damages, losses, demands, suits, recoveries, costs and expenses, including court costs and reasonable attorneys' fees, or claims, including claims and actions relating to injury to or death of any person or damage to property, by, from or owed to third parties, that are due to, arise out of or result from the indemnifying Party's acts or omissions in connection with the performance of its obligations under this Agreement, except to the extent of gross negligence or intentional wrongdoing by the indemnified Party. Liability under this provision is exempt from the general limitations on liability found in Section 7.2.

7.3.2 In the case of a third party claim against which a Party is entitled to indemnification pursuant to this Section 7.3, the indemnified Party shall notify the indemnifying Party as promptly as practicable, and the indemnifying Party shall promptly assume the defense of such claim. Any failure of or delay by the indemnified Party in giving such notification shall not affect the indemnifying Party's indemnification obligation hereunder unless such failure or delay is materially prejudicial to the indemnifying Party. If the indemnifying Party fails, after notice and reasonable opportunity to proceed, to assume the defense of such claim, the indemnified Party 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.

7.3.3 If an indemnified Party is entitled to indemnification under this Section 7.3, the amount owed by the indemnifying Party to the indemnified Party shall not exceed the amount of such indemnified Party's actual loss, net of any insurance or other recovery.

7.4 Uncontrollable Force

7.4.1 As used in this article, an Uncontrollable Force shall mean "any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm, flood, earthquake, explosion, breakage or accident to machinery or equipment, any curtailment, order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond the reasonable control of the Cooperative or Interconnection Customer which could not be avoided through the exercise of Prudent Utility Practice. An

Uncontrollable Force Event does not include an act of negligence or intentional wrongdoing by the Party claiming Uncontrollable Force.”

7.4.2 If an Uncontrollable Force Event prevents a Party from fulfilling any obligations under this Agreement, the Party affected by the Uncontrollable Force Event (Affected Party) shall promptly notify the other Party, either in writing or via telephone, of the existence of the Uncontrollable Force Event. The notification must specify in reasonable detail the circumstances of the Uncontrollable Force Event, its expected duration, and the steps that the Affected Party is taking to mitigate the effects of the event on its performance. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Uncontrollable Force 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 Uncontrollable Force Event cannot be mitigated by the use of Reasonable Efforts. The Affected Party will use Reasonable Efforts to resume its performance as soon as possible.

7.5 Default

7.5.1 Upon the breach by a Party of its obligations hereunder, or the failure of a Party to perform its obligations hereunder in accordance with the terms and conditions hereof, the other Party (hereafter referred to as the non-defaulting Party) shall give written notice of such breach or failure (a “Default”) to the defaulting Party. If the defaulting Party cures such Default within 60 days from receipt of the Default notice, or if such Default is not capable of cure within 60 days, the defaulting Party commences to cure such Default within 20 days after receipt of the Default notice, and continuously and diligently prosecutes such cure and completes the cure of such Default within 6 months after receipt of the Default notice; the Default specified in such notice shall cease to exist. Notwithstanding anything to the contrary in the foregoing, failure to pay any monies owed hereunder must be cured in any event within 15 days of receipt of the notice of the payment Default.

7.5.2 If a Default is not cured within the applicable cure period provided in Section 7.5.1, or if a Default is not capable of being cured within the applicable period provided in Section 7.5.1, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until such Default has been cured and be relieved of any further obligation hereunder and, whether or not that Party terminates this 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. The provisions of this Section 7.5 will survive termination of this Agreement

Article 8. Insurance

8.1 Interconnection Customer

The Interconnection Customer shall, at its own cost and expense, obtain and maintain in force during the term of this Agreement, general liability insurance without any exclusion for liabilities related to the interconnection undertaken pursuant to this Agreement. The amount of such insurance shall be sufficient to insure against all reasonably foreseeable direct liabilities given the size and nature of the generating equipment

being interconnected, the interconnection itself, and the characteristics of the system to which the interconnection is made, and shall meet any other generally applicable insurance requirements imposed by the Cooperative. Cooperative shall be named as an additional insured under such policy. Such insurance shall be obtained from an insurance provider authorized to do business in the State of California. The Interconnection Customer shall provide copies of insurance certificates to Cooperative no later than 10 Business Days prior to the anticipated Commercial Operation Date evidencing that such insurance is in effect. After the Commercial Operation Date, Interconnection Customer shall provide insurance certificates to the Cooperative upon request. If the Interconnection Customer is of sufficient credit-worthiness, it may propose to self-insure for such liabilities, and such a proposal shall not be unreasonably rejected.

8.2 Cooperative

Cooperative shall maintain general liability insurance or self-insurance consistent with Cooperative's commercial practice. Such insurance or self-insurance shall not exclude coverage for Cooperative's liabilities hereunder.

8.3 Notice of Accidents or Injuries

Each of Cooperative and the Interconnection Customer agree to promptly notify the other Party whenever an accident or incident occurs resulting in any injuries or damages that are included within the scope of coverage of such insurance, whether or not such coverage is sought.

Article 9. Confidentiality

9.1 Confidential Information

Confidential information shall mean any confidential and/or proprietary information provided by one Party to the other Party that is clearly marked or otherwise designated "Confidential." For purposes of this Agreement, all design, operating specifications, and metering data provided by the Interconnection Customer shall be deemed confidential information regardless of whether it is clearly marked or otherwise designated as such.

9.1.1 Confidential Information does not include information previously or subsequently in the public domain other than through breach of this Section 9.1; required to be publicly submitted or divulged by Governmental Authorities or by any regulation or law, including, but not limited to the California Public Records Act (Cal. Government Code Section 6500, et. seq) (after, to the extent practicable, prompt notice to the other Party and after the other Party has had the opportunity, at its sole cost and expense, to oppose such publication or release); or necessary to be divulged in an action to enforce this Agreement. Each Party receiving Confidential Information shall hold such information in confidence and shall not disclose it to any third party (other than Interconnected Systems or Affiliates for purposes related to the operation of the Generating Facility, Cooperative Distribution System, or Interconnected Systems) nor to the public without the prior written authorization from the Party providing that information, except to fulfill obligations under this Agreement, or to fulfill legal or regulatory requirements.

9.2 Standard of Care

Each Party shall employ at least the same standard of care to protect Confidential Information obtained from the other Party as it employs to protect its own Confidential Information.

9.3 Relief

Each Party is entitled to equitable relief, by injunction or otherwise, to enforce its rights under this provision to prevent the release of Confidential Information without bond or proof of damages, and may seek other remedies available at law or in equity for breach of this provision.

9.4 Release of Information to FERC

Notwithstanding anything in this article to the contrary, and pursuant to 18 CFR § 1 b.20, if FERC, during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to this Agreement, the Party shall provide the requested information to FERC, within the time provided for in the request for information. In providing the information to FERC, the Party may, consistent with 18 CFR § 388.112, request that the information be treated as confidential and non-public by FERC and that the information be withheld from public disclosure. Parties are prohibited from notifying the other Party to this Agreement prior to the release of the Confidential Information to FERC. The Party shall notify the other Party to this Agreement when it is notified by FERC that a request to release Confidential Information has been received by FERC, at which time either of the Parties may respond before such information would be made public, pursuant to 18 CFR § 388.112. Requests from a state regulatory body conducting a confidential investigation shall be treated in a similar manner if consistent with the applicable state rules and regulations.

Article 10. Disputes

10.1 Resolution of Disputes

The Parties agree to attempt to resolve all disputes related to this Agreement according to the provisions of this Article 10.

10.2 Notice

In the event of a dispute, either Party shall provide the other Party with a written Notice of Dispute. Such Notice shall describe in detail the nature of the dispute. Senior executives of each party shall work in good faith to resolve the dispute within 30 Business Days after receipt of the Notice (unless extended by the Parties' mutual agreement).

10.3 If the dispute has not been resolved in the timeframe provided under Section 10.2 and either Party wishes to continue to attempt to resolve the dispute, it shall promptly give notice to the other Party to initiate mediation under Section 10.4.

10.4 Within 20 Business Days after the disputing Party gives notice to initiate mediation (or such other time agreed to by the Parties), the Parties shall appoint a single neutral party to serve as mediator. The mediator shall be knowledgeable in electric utility matters, including electric transmission and bulk power issues, and shall not have any current or past substantial business or financial relationships with either Party to the mediation. Each Party agrees to conduct all negotiations in good faith. The Parties will equally share the costs and expenses of the mediator.

10.5 If the Parties are unable to agree to a mediator or do not resolve the dispute within 90 days of the appointment of the mediator and either Party wishes to continue to attempt to resolve the dispute, such Party shall promptly give notice to the other Party to commence binding arbitration. Authorized representatives shall promptly confer and attempt to agree upon a single arbitrator. If the Parties cannot agree on a single arbitrator within 20 Business Days of the notice to commence arbitration, the American Arbitration Association (“AAA”) shall make such appointment in accordance with its Commercial Arbitration Rules. The AAA Commercial Arbitration Rules shall govern the conduct of the arbitration in the absence of contrary agreement by all Parties. The AAA will not administer the arbitration unless the Parties otherwise agree. The arbitrator(s) shall conduct a hearing in Portola, California, and within 30 days thereafter, unless such time is extended by mutual agreement of the Parties, shall notify the Parties in writing of the decision stating separately the findings of fact and determinations of law. The decision of the arbitrator shall be final and binding. The cost and expenses of any arbitration shall be shared equally between the Parties; provided, that each Party shall bear all costs and expenses of preparing and presenting its own case, including its attorney’s fees and expert fees.

10.6 Disputes arising under this Agreement will be governed by the precedents established by the Federal Energy Regulatory Commission and the law of the State of California, and by Prudent Utility Practice.

Article 11. Taxes

11.1 Tax Laws

The Parties agree to follow all applicable tax laws and regulations, consistent with FERC policy and Internal Revenue Service requirements.

11.2 Cooperation; Tax-Exempt Status

Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this Agreement is intended to adversely affect the Distribution Provider's tax exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

Article 12. Miscellaneous

12.1 Governing Law and Venue

This Agreement shall be construed according to the laws of the State of California, without regard to its conflicts of laws principles. The Parties hereto consent to the jurisdiction of the Plumas County Court and agree

that the venue for any legal action arising out of this Agreement shall be the Plumas County Court, or such other California venue as the Parties may agree, but in no circumstance shall any venue for the resolution or litigation of a dispute arising out of this Agreement be outside of the State of California nor controlled by any body of law other than the laws of the State of California. In the event of any dispute, lawsuit, litigation, claim or action arising out of this Agreement, the prevailing Party shall be entitled to the recovery of legal costs, including expert witness or consultant fees as well as reasonable attorneys' fees.

12.2 Amendment

The Parties may amend this Agreement by a written instrument duly executed by both Parties.

12.3 No Third Party Beneficiaries

This 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.

12.4 Waiver

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

12.4.2 Any waiver at any time by any Party of its rights with respect to this 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 this Agreement. Any waiver of this Agreement shall, if requested, be provided in writing.

12.5 Entire Agreement

This Agreement, including all Attachments, constitutes the entire agreement among the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between or among the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, any Party's compliance with its obligations under this Agreement.

12.6 Multiple Counterparts

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

12.7 No Partnership

This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership among the Parties or to impose any partnership obligation or partnership liability upon

any Party. No 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, another Party.

12.8 Interpretation

The headings contained in this Agreement are for reference purposes only and do not affect the meaning or interpretation of this Agreement. The words “hereof,” “herein,” “hereunder” and similar terms refer to this Agreement as a whole and not to any particular provisions of this Agreement, and the word “including” and words of similar import means “including without limitation” or “including, but not limited to.” Unless otherwise specified herein, references to a “month” shall mean a calendar month, and references to a “day” shall mean any calendar day, including any Business Day. Unless the context indicates otherwise, all references to any “Section” or “Attachment” refers to the corresponding Section of, or Attachment to, this Agreement. The Parties have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises, this Agreement shall be construed without regard to any presumption or rule requiring construction or interpretation against the Party drafting or causing any instrument to be drafted. Capitalized terms used and not otherwise defined herein shall have the meanings specified in the Glossary of Terms attached hereto as Attachment 1 to this Agreement.

12.9 Severability

If any provision or portion of this 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 this Agreement shall remain in full force and effect.

12.10 Security Arrangements

Infrastructure security of electric system equipment and operations and control hardware and software is essential to ensure day-to-day reliability and operational security. FERC expects all transmission providers, market participants, and interconnection customers interconnected to electric systems 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 utilities are expected to meet basic standards for system infrastructure and operational security, including physical, operational, and cyber-security practices. The Interconnection Customer agrees to comply with all legally mandated rules, tariffs, and operating requirements.

12.11 Environmental Releases

Each Party shall notify the other Party, first orally and then in writing, of the release of any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, which may reasonably be expected to affect the other Party. The notifying Party shall (1) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than 24 hours after such Party becomes aware of the occurrence, and (2)

promptly furnish to the other Parties copies of any publicly available reports filed with any governmental authorities addressing such events.

12.12 Subcontractors

Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Parties for the performance of such subcontractor.

12.12.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Parties for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall Cooperative be liable for the actions or inactions of the other Party or its subcontractors with respect to obligations under this Agreement. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

12.12.2 The obligations of the Parties under this Agreement will not be limited in any way by any limitation of subcontractor's insurance.

Article 13. Notices

13.1 General

Unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") 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 persons and at the addresses specified below:

If to the Interconnection Customer:

Interconnection Customer: _____

Attention: _____

Address: _____

City: _____ State: _____ Zip _____

Phone: _____ Fax: _____

If to Cooperative:

Plumas-Sierra Rural Electric Cooperative

Attention: _____

73233 State Route 70

Portola, CA 96122

Phone: _____ Fax: _____

13.2 Billing and Payment

Billings and payments shall be sent to the addresses set out below:

Interconnection Customer: _____

Attention: _____

Address: _____

City: _____ State: _____ Zip: _____

Cooperative:

Plumas-Sierra Rural Electric Cooperative

Attention: _____

73233 State Route 70

Portola, CA 96122

13.3 Designated Operating Representative

The Parties shall each designate an operating representative to conduct the communications, which may be necessary or convenient for the administration of this Agreement, by notice given to the other Party. Each Party may change their designated operating representative from time to time by written notice to the other Party. The designated operating representatives will also serve as the point of contact with respect to operations and maintenance of the Party's facilities. Any notice or request required or permitted to be given by either Party to the other and not required by this Agreement to be given in writing may be so given by telephone, facsimile or e-mail.

13.4 Changes to Contact Information

Either Party may change its contact information hereunder by giving 5 Business Days written notice to the other Party prior to the effective date of the change.

{Remainder of page intentionally left blank}

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives as of the date first set forth above.

Cooperative

Name _____
Title: _____
Date: _____

Interconnection Customer

Name _____
Title: _____
Date: _____

Attachment 1

Glossary of Terms

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

Balancing Authority Area - The collection of generation, transmission, and loads within the metered boundaries of which the Balancing Authority maintains load-resource balance.

Business Day - Monday through Friday, excluding federal holidays.

CAISO Controlled Grid - The system of transmission lines and associated facilities of the parties to the Transmission Control Agreement that have been placed under the CAISO's Operational Control.

Cooperative Interconnection Facilities - All facilities and equipment owned, controlled, or operated by the Cooperative from the Point of Change of Ownership to the Point of Interconnection as identified in Attachment 3, including any modifications, additions or upgrades to such facilities and equipment. Cooperative's Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades.

Commercial Operation Date - The date on which the Generating Facility commences generating electricity on a commercial basis (and not including the initial performance test period) as agreed to by the Parties.

Distribution System - The electric distribution system owned and operated by the Cooperative in order to deliver electricity to its retail customers.

Distribution Upgrades - The additions, modifications, and upgrades to the Distribution System at or beyond the Point of Interconnection to facilitate interconnection of the Generating Facility and render the service necessary to effect the Interconnection Customer's wholesale sale of electricity in interstate commerce. Distribution Upgrades do not include Interconnection Facilities.

FERC - The Federal Energy Regulatory Commission (Commission) or its successor.

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

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

Governmental Authority - Any federal, state, local or other governmental regulatory or administrative agency, court, commission, department, board, or other governmental subdivision, legislature, rulemaking board, tribunal, or other governmental authority having jurisdiction over a Party, its respective facilities, or the respective services they provide, and exercising or entitled to exercise any administrative, executive, police, or taxing authority or power. The Cooperative is a Governmental Authority.

Interconnected Systems – The low- and high-voltage electric transmission lines owned and/or operated by Pacific Gas & Electric Company (PG&E), Liberty Energy (Liberty) and NV Energy, together with all transmission facilities under the operational control of the CAISO.

Interconnection Application - Interconnection Application means the Interconnection Customer's application, submitted in accordance with the Interconnection Procedures, to interconnect a new Generating Facility, or to increase the capacity of, or make a Material Modification to the operating characteristics of, an existing Generating Facility that is interconnected with the Distribution System.

Interconnection Customer's Interconnection Facilities - All facilities and equipment, as identified in the Interconnection Agreement, that are located between the Generating Facility and the Point of Change of Ownership, as identified in Attachment 3, including any modification, addition, or upgrades to such facilities and equipment necessary to physically and electrically interconnect the Generating Facility to the Distribution System. Interconnection Customer's Interconnection Facilities are sole use facilities.

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

Material Modification - A modification that has a material impact on the cost or timing of any Interconnection Application or any other deemed complete interconnection request with a later queue priority date.

Network Upgrades - Network Upgrades means additions, modifications, and upgrades to the transmission facilities owned or operated by an Interconnected System. Network Upgrades do not include the Distribution System or Distribution Upgrades.

Operating Requirements - Any operating and technical requirements of an Interconnected System, CAISO, Western Electricity Coordinating Council or the Cooperative that may be applicable to the Generating Facility, including those set forth in this Agreement.

Point of Change of Ownership - The point, as set forth in Attachment 3, where the Interconnection Customer's Interconnection Facilities connect to the Cooperative's Interconnection Facilities

Point of Interconnection - The point where the Interconnection Facilities connect with the Distribution System.

Reasonable Efforts - With respect to an action required to be attempted or taken by a Party under this Agreement, efforts that are timely and consistent with Prudent Utility Practice and are otherwise substantially equivalent to those a Party would use to protect its own interests.

WECC - The Western Electricity Coordinating Council or any successor organization.

Attachment 2

Description and Costs of the Generating Facility, and Interconnection Facilities itemized and identified as being owned by the Interconnection Customer or the Cooperative. Cooperative will provide a best estimate itemized cost, including overheads, of Cooperative Interconnection Facilities and metering equipment (if any), and a best estimate itemized cost of the annual operation and maintenance expenses associated with its Interconnection Facilities and metering equipment.

Item #	Item	Owner
1		
2		
3		
4		
5		
6		
7		
8		

Attachment 3

Description of Generating Facility and One-line Diagram Depicting the Generating Facility, Interconnection Facilities, Metering Equipment, and Distribution System Upgrades

Description:

Name:	_____
Owner:	_____
Location:	_____
Equipment:	_____
Type of Facility :	_____
Installed Capacity:	_____
Interconnect Point:	_____ _____
Operator:	_____

Attachment 3 (continued)

One Line Diagram:

Attachment 4

Milestones

[To be completed before this Agreement is signed]

In-Service Date: _____

Critical milestones	Responsible Party	
1)	_____	_____
2)	_____	_____
3)	_____	_____
4)	_____	_____
5)	_____	_____
6)	_____	_____
7)	_____	_____
8)	_____	_____
9)	_____	_____
10)	_____	_____

Attachment 5

Additional Operating Requirements

1) All applicable requirements of WECC and Interconnected Systems,

and

2) General Rules for interconnections with the Cooperative Distribution System:

{see attached}

General Rules

- A. Design Reviews and Inspections. Cooperative shall have the right to review the design of a Producer's Generating and Interconnection Facilities and to inspect a Producer's Generating and/or Interconnection Facilities prior to the commencement of Parallel Operation with Cooperative's Distribution System. Cooperative may require a Producer to make modifications as necessary to comply with the requirements of this Rule. Cooperative shall not, by reason of such review or lack of review, be responsible for the strength, adequacy or capacity of such equipment.

- B. Curtailment and Disconnection. Cooperative may also limit the operation or disconnect or require the disconnection of a Producer's Generating Facility from Cooperative's Distribution System upon the provision of reasonable written notice:
 - 1. to allow for routine maintenance, repairs or modifications to Cooperative's Distribution System;
 - 2. upon Cooperative's determination that a Producer's Generating Facility is not in compliance with this Rule; or (3) upon termination of the Interconnection Agreement. Upon the Producer's written request, Cooperative shall provide a written explanation of the reason for such curtailment or disconnection.

- C. Suitable Equipment Required. Circuit breakers or other interrupting devices located at the Point of Common Coupling must be Certified or "Listed" (as defined in Article 100, the Definitions Section of the National Electrical Code) as suitable for their intended application. This includes being capable of interrupting the maximum available fault current expected at their location. Producer's Generating Facility and Interconnection Facilities shall be designed so that the failure of any one device shall not potentially compromise the safety and reliability of Cooperative's Distribution System.

- D. General Interconnection and Protection Function Requirements
 - 1. The Generating Facility paralleling-device shall be capable of withstanding 220% of the Interconnection Facility rated voltage (IEEE 1547-4.1.8.3).
 - 2. The Interconnection Facility shall have the capability to withstand voltage and current surges in accordance with the environments defined in IEEE Std C62.41.2-2002 or IEEE Std C37.90.1-2002 as applicable and as described in J.3.e (IEEE 1547-4.1.8.2).
 - 3. Visible Disconnect Required: When required by Cooperative's operating practices, the Producer shall furnish and install a ganged, manually-operated isolating switch (or a comparable device mutually agreed upon by Cooperative and the Producer) near the Point of Interconnection to isolate the Generating Facility from Cooperative's Distribution System. The device does not have to be rated for load break nor provide over-current protection. The device must:

more cost effective options for providing the necessary data in real time are not available.

- G. Operating Voltage Range. The voltage ranges in Table 1 define protective trip limits for the Protective Function and are not intended to define or imply a voltage regulation Function. Generating Facilities shall cease to energize Cooperative’s Distribution System within the prescribed trip time whenever the voltage at the PCC deviates from the allowable voltage operating range. The Protective Function shall detect and respond to voltage on all phases to which the Generating Facility is connected.
- H. Generating Facilities (30 kVA or less). Generating Facilities with a Gross Nameplate Rating of 30 kVA or less shall be capable of operating within the voltage range normally experienced on Cooperative’s Distribution System. The operating range shall be selected in a manner that minimizes nuisance tripping between 106 volts and 132 volts on a 120-volt base (88-110% of nominal voltage). Voltage shall be detected at either the PCC or the Point of Interconnection.
- I. Generating Facilities (greater than 30 kVA). Cooperative may have specific operating voltage ranges for Generating Facilities with Gross Nameplate Ratings greater than 30 kVA, and may require adjustable operating voltage settings. In the absence of such requirements, the Generating Facility shall operate at a range between 88% and 110% of the applicable interconnection voltage. Voltage shall be detected no later than the Point of Interconnection.
- J. Voltage Disturbances. Whenever Cooperative’s Distribution System voltage at the PCC varies from and remains outside normal (nominally 120 volts) by the predetermined amounts set forth in Table 1, the Generating Facility’s Protective Functions shall cause the Generator(s) to become isolated from Cooperative’s Distribution System.

Table 1		
Primary Distribution Line Type Configuration	Type of Interconnection to be Made to Primary Distribution Line	Results/Criteria
Three-phase, three wire	Any type	Pass Screen
Three-phase, four wire	Single-phase, line-to-neutral	Pass Screen
Three-phase, four wire (For any line that has such a section OR mixed three wire and four wire)	All others	To pass, aggregate Generating Facility Nameplate Rating must be less than or equal to 10% of Line Section peak load

- K. Maximum Trip time. The time between the onset of the abnormal condition and the Generating Facility ceasing to energize Cooperative's Distribution System. Protective Function sensing equipment and circuits may remain connected to Cooperative's Distribution System to allow sensing of electrical conditions for use by the "reconnect" feature. The purpose of the allowed time delay is to allow a Generating Facility to "ride through" short-term disturbances to avoid nuisance tripping. Set points shall not be user adjustable (though they may be field adjustable by qualified personnel). For Generating Facilities with a Gross Nameplate Rating greater than 30 kVA, set points shall be field adjustable and different voltage set points and trip times from those in Table 2 may be negotiated with Cooperative.

Table 2: Frequency Trip Settings		
Generating Facility Rating	Frequency Range (Assuming 60 Hz Nominal)	Maximum Trip Time(1) (Assuming 60 Cycles per Second)
Less or equal to 30 kW	Less than 59.3 Hz	10 Cycles
	Greater than 60.5 Hz	10 Cycles
Greater than 30 kW	Less than 57 Hz	10 Cycles
	Less than an adjustable value between 59.8 Hz and 57 Hz but greater than 57 Hz ²	Adjustable between 10 and 18,000 Cycles
	Greater than 60.5 Hz	10 Cycles

Notes:

Unless otherwise required by Cooperative, a trip frequency of 59.3 Hz and a maximum trip time of 10 cycles shall be used.

When a 10-cycle maximum trip time is used, a second under frequency trip setting is not required.

Attachment 6

Description of Cooperative Distribution Upgrades and Cooperative's Best Estimate of Upgrade Costs, including overheads, of the Upgrades and annual operation and maintenance expenses associated with such Upgrades.

ATTACHMENT C-1

Net Energy Metering Electrical Generator Interconnection Agreement



73233 State Route 70 • Portola, CA 96122
(800) 555-2207 • (530) 832-4261 • Fax (530) 832-5761
www.psrec.coop

Your Touchstone Energy® Cooperative 
The power of human connections®

NET ENERGY METERING ELECTRICAL GENERATOR INTERCONNECTION AGREEMENT

_____ (Member), and Plumas-Sierra Rural Electric Cooperative (PSREC), referred to collectively as "Parties" or individually as "Party," agree as follows:

1. INDEPENDENT ELECTRIC GENERATING FACILITY:

- a. Identification Number (to be assigned by PSREC): _____
- b. DC Power Rating of "Facility": _____
- c. Member's Service Address: _____
- d. Member's Billing Address: _____
- e. Member's Phone No. at Service Address:
() - _____ Alternate: () - _____
- f. Approximate date the Facility will be ready for operation: _____
- g. PSREC Account Number for Service Address in Section 1(c): _____
- h. The Facility must comply with the standards set forth in the Plumas-Sierra REC Interconnection of Distributed Resources Policy and Procedures Manual on an ongoing basis.

2. OPERATION OPTION

- a. Member understands that the Facility cannot be energized prior to PSREC's inspection.
- b. Member has elected to construct, design, install, operate, and maintain the Facility in a manner consistent with the normal and safe operation of the electrical distribution system owned and operated by PSREC in accordance with the PSREC Interconnection of Distributed Resources Policy and Procedures Manual.
- c. By signing this Interconnection Agreement, Member understands, accepts, and agrees that connection and operation of the Member's Facility shall be subject to the terms and conditions set forth in this Interconnection Agreement, the Interconnection of Distributed Resources Policy and Procedures Manual, and PSREC's Rules (hereinafter referred to as 'Rules'). Any conflict between this Interconnection Agreement and the Rules will be governed by the terms of the Rules.

3. CREDITS FOR NET ENERGY

- a. Member is eligible to receive credits for energy if Member's monthly energy generated by the Facility exceeds Member's monthly energy requirements, calculated by "Net Energy Metering." Net Energy Metering uses two meters, or a bi-directional meter, to measure the difference between the electricity supplied by PSREC and the energy generated by the Facility and supplied to PSREC. Net energy metering account billing options, net energy carryover rules and restrictions, and energy costs for the account in Section 1 are controlled by (1) PSREC's rate schedules in effect at the time of Member's signing of this Interconnection Agreement initially, and as revised thereafter, as applicable to Member, and (2) the Net Metering Payment Agreement.

4. INTERRUPTION OR REDUCTION OF DELIVERIES

- a. PSREC may decline to accept deliveries of energy, and PSREC may require Member to interrupt or reduce deliveries of energy to PSREC, as follows: (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any of PSREC's equipment or part of PSREC's system; or (b) if PSREC determines that curtailment, interruption, or reduction of receipt of energy from Member's Facility is necessary because of emergencies, forced outages, force majeure, or the need for compliance with prudent electrical practices.
- b. Notwithstanding any other provision of this Agreement, if at any time PSREC, in its sole discretion, determines that either (a) the Facility may endanger PSREC personnel or members of the general public, or (b) the continued operation of Member's Facility may impair the integrity of PSREC's electric distribution system, PSREC shall have the right to disconnect Member's Facility from PSREC's electric distribution system. Member's Facility shall remain disconnected until such time as PSREC is satisfied that the condition(s) referenced in (a) or (b) of this paragraph have been corrected, and PSREC shall not be obligated to compensate Member for any loss of use of generation of energy during any and all periods of such disconnection.

5. CONDITIONS OF FACILITY OPERATIONS

- a. Member's Facility shall be configured so as to prevent back-feeding into PSREC's system when the Facility is not energized.
- b. Member shall deliver energy from the Facility to PSREC at PSREC's meter.
- c. Member, and not PSREC, shall be solely responsible for all legal and financial obligations arising from the construction, installation, design, operation, and maintenance of the Facility in accordance with all applicable laws and regulations.
- d. Member, at Member's sole expense, shall obtain and possess all permits and authorizations in accordance with all applicable laws and regulations for the construction, installation, design, operation and maintenance of the Facility.

- e. Member shall not connect the Facility, or any portion of it, to PSREC's distribution system, until written approval of Facility has been given to Member by PSREC. PSREC shall have the right to have representatives present at the initial testing of Member's Facility.
- f. Member may reconnect its Facility to the PSREC system following normal operational outages and interruptions without notifying PSREC unless PSREC has disconnected service, or PSREC notifies Member that a reasonable possibility exists that reconnections would pose a safety hazard. In all cases Member must notify PSREC it intends to reconnect, unless PSREC waives such requirement in writing.
- g. If PSREC has disconnected Service to the Facility, or PSREC has notified Member that a reasonable possibility exists that reconnection would pose a safety hazard, Member may call PSREC at 800-555-2207 to request authorization to reconnect the Facility

6. MAINTENANCE AND PERMITS

Member shall:

- a. Maintain the Facility and interconnection facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, requirements of Section 5, above, and
- b. Obtain and maintain in good standing any governmental authorizations or permits required for the operation of the Facility, including any future regulatory requirements that may apply to Member's Facility. Member shall reimburse PSREC for any and all losses, damages, claims, penalties, or liability PSREC incurs as a result of Member's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Member's Facility.

7. ACCESS TO PREMISES

- a. PSREC may enter Member's premises without prior notice (a) to inspect at all reasonable hours Member's protective devices and read or test any meter for the Facility and (b) to disconnect, at any time, without notice, the Facility if, in PSREC's sole opinion, a hazardous condition exists and that immediate action is necessary to protect persons, or PSREC's facilities, or property of others from damage or interference caused by (1) Member's Facility, or (2) Member's failure to comply with the requirements of this Agreement.

8. INDEMNITY AND LIABILITY BY MEMBER

- a. Member shall indemnify and hold PSREC, its directors, officers, agents and employees harmless against all loss, damages expense and liability to third persons for injury to or death of persons or injury to property caused by the Member's engineering, design, construction, installation, ownership, maintenance or operations of, or the making of replacements, additions or betterment to, or by failure of, the Facility in connection with this Agreement by reason of omission or negligence, whether active or passive. Member shall, on PSREC's request, defend any suit asserting a claim covered by this indemnity. Member shall pay all costs that may be incurred by PSREC in enforcing this indemnity.
- b. Nothing in this agreement shall be construed to create any duty to, any standard of care with reference to, or any liability to, any person not a Party to this Agreement.

employees shall be liable for any claims, demands, costs, losses, causes of action, or any other liability of any nature or kind, arising out of the engineering, design, construction, ownership, maintenance or operation of, or making of replacements, additions or betterments to, Member's Facility except to the extent actually caused by the sole and gross negligence of PSREC.

- c. Neither PSREC, its officers, agents or employees shall be liable for damages of any kind to the Facility caused by any electrical disturbance of the PSREC system or on the system of another, whether or not the electrical disturbance results from the negligence of PSREC or not.
- d. PSREC's willingness to interconnect to a Facility does not guarantee that the Facility is safe to connect to PSREC, nor that it is safe or effective for the member. By signing this Agreement, Member agrees to, and hereby does, hold PSREC harmless from any and all claims or damages to the Member's Facility or property, regardless whether such claims or damages are directly or indirectly caused by interconnecting their Facility to PSREC's grid.

9. GOVERNING LAW AND VENUE

- a. This Agreement shall be interpreted, governed, and construed under the laws of the State of California. In any proceeding to enforce or interpret the provisions of this Agreement, venue shall lie in the County of Plumas.

10. AMENDMENTS, MODIFICATIONS OR WAIVER

- a. Any amendments or modifications to this Agreement shall be in writing and agreed to by both Parties. The failure of any Party at any time or times to require performance of any provision hereof shall in no manner affect the right at a later time to enforce the same. No waiver by any Party of the breach of any term or covenant contained in this Agreement, whether by conduct or otherwise, shall be deemed to be construed as a further or continuing waiver of any such breach or a waiver of the breach of any other term or covenant unless such waiver is in writing.

11. NOTICES

All written notices shall be directed as follows:

To PSREC:

Plumas-Sierra Rural Electric Cooperative
Attn: Distributed Resources Manager
73233 State Route 70
Portola, CA 96122

Member's notices to PSREC pursuant to this Section 11 must refer to the ID Number set forth in Section 1.

To MEMBER:

Member name and billing address, as shown in Section 1.

12. TERM OF AGREEMENT; TERMINATION

- a. This Agreement shall be effective once it is signed by both the Member and PSREC. This Agreement shall remain in effect for 10 years from original signature date and shall be automatically renewed, subject to Generating Facility inspection, for each successive one-year period thereafter, unless terminated earlier in accordance with this Section 12. PSREC may terminate this Agreement at any time for any violation of this Agreement or any violation of PSREC's Rules. Both Parties may terminate this Agreement prior to the expiration of its Term, without regard to cause, on such mutually acceptable terms as they may agree upon in writing, in an instrument that is executed by each Party.

13. BINDING EFFECT

- a. This Agreement is and shall be binding on all heirs, successors, grantees and assigns of each of the Parties hereto without the necessity of any further documentation.

14. AUTHORITY

- a. Each individual undersigned Party hereby warrants that he, she or it possesses full and unconditional authority to sign and enter into this Agreement.
- b. If the undersigned Party chooses to submit documents containing electronic signature(s), the Party waives any objection to the electronic signature by electing the option to do so.

Primary Member Signature: _____ Date: _____

Print Name: _____

Secondary Member Signature: _____ Date: _____

Print Name: _____

PSREC Representative Signature: _____ Date: _____

Print Name: _____ Title: _____

ATTACHMENT C-2

Co-Energy Metering Electrical Generator Interconnection Agreement



73233 State Route 70 • Portola, CA 96122
(800) 555-2207 • (530) 832-4261 • Fax (530) 832-5761
www.psrec.coop

Your Touchstone Energy® Cooperative 
The power of human connections®

CO-ENERGY METERING ELECTRICAL GENERATOR INTERCONNECTION AGREEMENT

_____ (Member), and Plumas-Sierra Rural Electric Cooperative (PSREC), referred to collectively as "Parties" or individually as "Party," agree as follows:

1. INDEPENDENT ELECTRIC GENERATING FACILITY:

- a. Identification Number (to be assigned by PSREC): _____
- b. DC Power Rating of "Facility": _____
- c. Member's Service Address: _____
- d. Member's Billing Address: _____
- e. Member's Phone No. at Service Address:
() - _____ Alternate: () - _____
- f. Approximate date the Facility will be ready for operation: _____
- g. PSREC Account Number for Service Address in Section 1(c): _____
- h. The Facility must comply with the standards set forth in the Plumas-Sierra REC Interconnection of Distributed Resources Policy and Procedures Manual on an ongoing basis.

2. OPERATION OPTION

- a. Member understands that the Facility cannot be energized prior to PSREC's inspection.
- b. Member has elected to construct, design, install, operate, and maintain the Facility in a manner consistent with the normal and safe operation of the electrical distribution system owned and operated by PSREC in accordance with the PSREC Interconnection of Distributed Resources Policy and Procedures Manual.
- c. By signing this Interconnection Agreement, Member understands, accepts, and agrees that connection and operation of the Member's Facility shall be subject to the terms and conditions set forth in this Interconnection Agreement, the Interconnection of Distributed Resources Policy and Procedures Manual, and PSREC's Rules (hereinafter referred to as 'Rules'). Any conflict between this Interconnection Agreement and the Rules will be governed by the terms of the Rules.

3. CREDITS FOR ENERGY PRODUCED

- a. Member will receive credits for energy generated by the Facility monthly. Co-Energy Metering uses two meters to measure the difference between the electricity supplied by PSREC and the energy generated by the Facility and supplied to PSREC. Co-energy metering account billing options, credit carryover rules and restrictions, and energy costs for the account in Section 1 are controlled by (1) PSREC's rate schedules in effect at the time of Member's signing of this Interconnection Agreement initially, and as revised thereafter, as applicable to Member, and (2) the Co-Energy Metering Payment Agreement.

4. INTERRUPTION OR REDUCTION OF DELIVERIES

- a. PSREC may decline to accept deliveries of energy, and PSREC may require Member to interrupt or reduce deliveries of energy to PSREC, as follows: (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any of PSREC's equipment or part of PSREC's system; or (b) if PSREC determines that curtailment, interruption, or reduction of receipt of energy from Member's Facility is necessary because of emergencies, forced outages, force majeure, or the need for compliance with prudent electrical practices.
- b. Notwithstanding any other provision of this Agreement, if at any time PSREC, in its sole discretion, determines that either (a) the Facility may endanger PSREC personnel or members of the general public, or (b) the continued operation of Member's Facility may impair the integrity of PSREC's electric distribution system, PSREC shall have the right to disconnect Member's Facility from PSREC's electric distribution system. Member's Facility shall remain disconnected until such time as PSREC is satisfied that the condition(s) referenced in (a) or (b) of this paragraph have been corrected, and PSREC shall not be obligated to compensate Member for any loss of use of generation of energy during any and all periods of such disconnection.

5. CONDITIONS OF FACILITY OPERATIONS

- a. Member's Facility shall be configured so as to prevent back-feeding into PSREC's system when the Facility is not energized.
- b. Member shall deliver energy from the Facility to PSREC at PSREC's meter.
- c. Member, and not PSREC, shall be solely responsible for all legal and financial obligations arising from the construction, installation, design, operation, and maintenance of the Facility in accordance with all applicable laws and regulations.
- d. Member, at Member's sole expense, shall obtain and possess all permits and authorizations in accordance with all applicable laws and regulations for the construction, installation, design, operation and maintenance of the Facility.
- e. Member shall not connect the Facility, or any portion of it, to PSREC's distribution system, until written approval of Facility has been given to Member by PSREC. PSREC shall have the right to have representatives present at the initial testing of Member's Facility.

- f. Member may reconnect its Facility to the PSREC system following normal operational outages and interruptions without notifying PSREC unless PSREC has disconnected service, or PSREC notifies Member that a reasonable possibility exists that reconnections would pose a safety hazard. In all cases Member must notify PSREC it intends to reconnect, unless PSREC waives such requirement in writing.
- g. If PSREC has disconnected Service to the Facility, or PSREC has notified Member that a reasonable possibility exists that reconnection would pose a safety hazard, Member may call PSREC at 800-555-2207 to request authorization to reconnect the Facility

6. MAINTENANCE AND PERMITS

Member shall:

- a. Maintain the Facility and interconnection facilities in a safe and prudent manner and in conformance with all applicable laws and regulations including, but not limited to, requirements of Section 5, above, and
- b. Obtain and maintain in good standing any governmental authorizations or permits required for the operation of the Facility, including any future regulatory requirements that may apply to Member's Facility. Member shall reimburse PSREC for any and all losses, damages, claims, penalties, or liability PSREC incurs as a result of Member's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Member's Facility.

7. ACCESS TO PREMISES

- a. PSREC may enter Member's premises without prior notice (a) to inspect at all reasonable hours Member's protective devices and read or test any meter for the Facility and (b) to disconnect, at any time, without notice, the Facility if, in PSREC's sole opinion, a hazardous condition exists and that immediate action is necessary to protect persons, or PSREC's facilities, or property of others from damage or interference caused by (1) Member's Facility, or (2) Member's failure to comply with the requirements of this Agreement.

8. INDEMNITY AND LIABILITY BY MEMBER

- a. Member shall indemnify and hold PSREC, its directors, officers, agents and employees harmless against all loss, damages expense and liability to third persons for injury to or death of persons or injury to property caused by the Member's engineering, design, construction, installation, ownership, maintenance or operations of, or the making of replacements, additions or betterment to, or by failure of, the Facility in connection with this Agreement by reason of omission or negligence, whether active or passive. Member shall, on PSREC's request, defend any suit asserting a claim covered by this indemnity. Member shall pay all costs that may be incurred by PSREC in enforcing this indemnity.
- b. Nothing in this agreement shall be construed to create any duty to, any standard of care with reference to, or any liability to, any person not a Party to this Agreement. Neither PSREC, its officers, agents or employees shall be liable for any claims, demands, costs, losses, causes of action, or any other liability of any nature or kind, arising out of the engineering, design, construction, ownership, maintenance or

operation of, or making of replacements, additions or betterments to, Member's Facility except to the extent actually caused by the sole and gross negligence of PSREC.

- c. Neither PSREC, its officers, agents or employees shall be liable for damages of any kind to the Facility caused by any electrical disturbance of the PSREC system or on the system of another, whether or not the electrical disturbance results from the negligence of PSREC or not.
- d. PSREC's willingness to interconnect to a Facility does not guarantee that the Facility is safe to connect to PSREC, nor that it is safe or effective for the member. By signing this Agreement, Member agrees to, and hereby does, hold PSREC harmless from any and all claims or damages to the Member's Facility or property, regardless whether such claims or damages are directly or indirectly caused by interconnecting their Facility to PSREC's grid.

9. GOVERNING LAW AND VENUE

- a. This Agreement shall be interpreted, governed, and construed under the laws of the State of California. In any proceeding to enforce or interpret the provisions of this Agreement, venue shall lie in the County of Plumas.

10. AMENDMENTS, MODIFICATIONS OR WAIVER

- a. Any amendments or modifications to this Agreement shall be in writing and agreed to by both Parties. The failure of any Party at any time or times to require performance of any provision hereof shall in no manner affect the right at a later time to enforce the same. No waiver by any Party of the breach of any term or covenant contained in this Agreement, whether by conduct or otherwise, shall be deemed to be construed as a further or continuing waiver of any such breach or a waiver of the breach of any other term or covenant unless such waiver is in writing.

11. NOTICES

All written notices shall be directed as follows:

To PSREC:

Plumas-Sierra Rural Electric Cooperative
Attn: Distributed Resources Manager
73233 State Route 70
Portola, CA 96122

Member's notices to PSREC pursuant to this Section 11 must refer to the ID Number set forth in Section 1.

To MEMBER:

Member name and billing address, as shown in Section 1.

12. TERM OF AGREEMENT; TERMINATION

- a. This Agreement shall be effective once it is signed by both the Member and PSREC. This Agreement shall remain in effect for 10 years from original signature date and shall be automatically renewed, subject to Generating Facility inspection, for each successive one-year period thereafter, unless terminated earlier in accordance with this Section 12. PSREC may terminate this Agreement at any time for any violation of this Agreement or any violation of PSREC's Rules. Both Parties may terminate this Agreement prior to the expiration of its Term, without regard to cause, on such mutually acceptable terms as they may agree upon in writing, in an instrument that is executed by each Party.

13. BINDING EFFECT

- a. This Agreement is and shall be binding on all heirs, successors, grantees and assigns of each of the Parties hereto without the necessity of any further documentation.

14. AUTHORITY

- a. Each individual undersigned Party hereby warrants that he, she or it possesses full and unconditional authority to sign and enter into this Agreement.
- b. If the undersigned Party chooses to submit documents containing electronic signature(s), the Party waives any objection to the electronic signature by electing the option to do so.

Primary Member Signature: _____ Date: _____

Print Name: _____

Secondary Member Signature: _____ Date: _____

Print Name: _____

PSREC Representative Signature: _____ Date: _____

Print Name: _____ Title: _____

ATTACHMENT D

Net Metering Payment Agreement



73233 State Route 70 • Portola, CA 96122
(800) 555-2207 • (530) 832-4261 • Fax (530) 832-5761
www.psrec.coop

Your Touchstone Energy® Cooperative 
The power of human connections®

NET ENERGY METERING PAYMENT AGREEMENT

1. MEMBER INFORMATION

- a. Member Name(s): _____
- b. Mailing Address: _____
- c. Service Address: _____

2. ACCOUNT INFORMATION

- a. PSREC Electric Service Account Number(s): _____
- b. PSREC Electric Service Rate Code: _____

3. METERING OF NET ENERGY

Net Energy Metering shall have the meaning given in Public Utilities Code section 2827(b)(6). Net energy metering may use two meters, or a bi-directional meter, to measure the difference between the electricity, measured in kilowatt-hours (kWh), supplied by PSREC and the energy generated by Member and fed back to PSREC. Because the Member's existing meter is not capable of bi-directional metering, PSREC will install, at Member's expense, additional meters, meter adapters or bi-directional meter replacements, (determined, as available, by PSREC), for the purpose of net energy metering. The Member shall provide the additional meter sockets, if necessary.

4. MEMBER'S QUALIFICATIONS

Net Energy Metering is available to Members owning and operating an independent renewable electrical generation facility that generates electricity from a renewable source listed in paragraph (1) of subdivision (a) of Section 25741 of the Public Resources Code with a capacity of not more than 25-kilowatts (kW) at Member's premises which operates in parallel with PSREC's transmission and distribution facilities and is intended primarily to offset part or all of Member's own electrical requirements. In addition to this Agreement, Member must sign PSREC's "Net Energy Metering Electrical Generator Interconnection Agreement" (Interconnection Agreement).

5. ANNUALIZED PAYMENT/SETTLEMENT METHOD

For each monthly billing cycle, the Member will be billed for and is required to pay the minimum bill for each meter under the Member's rate schedule, including monthly facilities fees, public benefits charges, taxes, and net- power cost adjustment (PCA) fees, if applicable.

If, at the end of any normal monthly billing cycle, the aggregate energy supplied by PSREC is greater than the energy generated and fed back to the electric grid (as described in the Interconnection Agreement), Member will receive a bill as prescribed by the applicable standard rate schedule, for the net kWh supplied by PSREC, accounting for any kWh credit from previous month(s) and consistent with PSREC billing cycles and procedures. Any balance shown as due to PSREC on monthly bills is due and payable upon receipt, based on the Member's applicable rate schedule.

If, at the end of any normal monthly billing cycle, the energy supplied by PSREC is less than the energy generated and fed back to the electric grid, Member will receive credit for the excess electricity (in kWh) supplied to PSREC. The kWh credit can be carried through to be banked for subsequent monthly bills, up until the issuing of your bill each April.

Per AB 920 Regulations, all Members will receive compensation for net surplus electricity. If there are accrued surplus kWh credits at the end of March in any calendar year, PSREC will provide net-producers with a check, or monetary account credit, for the equivalent wholesale value of the energy. Any net payment or credit owed will be due and payable with the presentation of this settlement bill. The net surplus electricity compensation rate is governed by PSREC's Rate Schedule 850 and can be modified accordingly. The member agrees that all Renewable Energy Credits (RECs) associated with any annual surplus generation of the system belong to PSREC. PSREC may use or sell the RECs at its sole discretion.

6. AGREEMENT

This Agreement shall be in effect when signed by Member and PSREC, and shall remain in effect thereafter until the Interconnection Agreement between PSREC and Member is terminated. Except as provided under this section or Section 7 of this Agreement, this Agreement can only be modified or altered by a subsequent document signed by both PSREC and Member.

In addition to the foregoing, this Agreement may be terminated upon change of ownership or occupancy by Member or by mutual signed written agreement of both Member and PSREC and in either case shall be effective through the last day of Member's billing cycle.

7. RATES, RULES, AND REGULATIONS

This Agreement will at all times be subject to PSREC's Rates, Rules, and Regulations, as amended from time to time. Any changes to PSREC's Rates, Rules, and Regulations which would act to modify this Agreement shall automatically be incorporated herein without need for a formal amendment.

8. SIGNATURES AND AUTHORITY

The parties hereby warrant that they have authority to enter into this Agreement.

If the undersigned parties choose to submit documents containing electronic signature(s), the Parties waive any objection to the electronic signature by electing the option to do so.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives. This Agreement is effective as of the last date set forth below.

Primary Member Signature: _____ Date: _____

Print Name: _____

Secondary Member Signature: _____ Date: _____

Print Name: _____

PSREC Representative Signature: _____ Date: _____

Print Name: _____ Title: _____

ATTACHMENT E

Co-Energy Metering Payment Agreement



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Your Touchstone Energy® Cooperative 
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CO-ENERGY METERING PAYMENT AGREEMENT

1. MEMBER INFORMATION

- a. Member Name(s): _____
- b. Mailing Address: _____
- c. Service Address: _____

2. ACCOUNT INFORMATION

- a. PSREC Electric Service Account Number(s): _____
- b. PSREC Electric Service Rate Code: _____

3. METERING OF ENERGY PRODUCED

Co-Energy Metering shall have the meaning given in Public Utilities Code section 2827(b)(1). Co-Energy Metering uses two meters to measure the electricity, measured in kilowatt-hours (kWh), supplied by PSREC and the energy generated by Member and fed back to PSREC. PSREC will install, at Member's expense, additional meters for the purpose of Co-Energy Metering. The Member shall provide the additional meter sockets, if necessary.

4. MEMBER'S QUALIFICATIONS

Co-Energy Metering is available to Members owning and operating an independent renewable electrical generation facility that generates electricity from a renewable source listed in paragraph (1) of subdivision (a) of Section 25741 of the Public Resources Code with a capacity of more than 10-kilowatts (kW), but less than 25 KW at Member's premises which operates in parallel with PSREC's transmission and distribution facilities and is intended primarily to offset part or all of Member's own electrical requirements. In addition to this Agreement, Member must sign PSREC's "Co-Energy Metering Electrical Generator Interconnection Agreement" (Interconnection Agreement).

5. ANNUALIZED PAYMENT/SETTLEMENT METHOD

For each monthly billing cycle, the Member will be billed for and is required to pay the minimum bill for each meter under the Member's rate schedule, including monthly facilities fees, public benefits charges, taxes, and power cost adjustment (PCA) fees, if applicable.

At the end of each monthly billing cycle, the energy supplied by PSREC to Member will be billed as prescribed by the applicable standard rate schedule consistent with PSREC billing cycles and procedures. Any balance shown as due to PSREC on monthly bills is due and payable upon receipt, based on the Member's applicable rate schedule.

At the end of each monthly billing cycle, the energy supplied to PSREC by the Member's Generation Facility will be credited at the current generation value as listed in Rate Schedule 131. The credit can be carried through to subsequent monthly bills, up until the issuing of the bill each April.

If there are accrued surplus credits at the end of March in any calendar year, PSREC will provide Member with a check, or monetary account credit, for the equivalent generation value of the energy. Any payment or credit owed will be due and payable with the presentation of this settlement bill. The electricity compensation rate is governed by PSREC's Rate Schedule 131 and can be modified accordingly. The member agrees that all Renewable Energy Credits (RECs) associated with any annual generation of the system belong to PSREC. PSREC may use or sell the RECs at its sole discretion.

6. AGREEMENT

This Agreement shall be in effect when signed by Member and PSREC, and shall remain in effect thereafter until the Interconnection Agreement between PSREC and Member is terminated. Except as provided under this section or Section 7 of this Agreement, this Agreement can only be modified or altered by a subsequent document signed by both PSREC and Member.

In addition to the foregoing, this Agreement may be terminated upon change of ownership or occupancy by Member or by mutual signed written agreement of both Member and PSREC and in either case shall be effective through the last day of Member's billing cycle.

7. RATES, RULES, AND REGULATIONS

This Agreement will at all times be subject to PSREC's Rates, Rules, and Regulations, as amended from time to time. Any changes to PSREC's Rates, Rules, and Regulations which would act to modify this Agreement shall automatically be incorporated herein without need for a formal amendment.

8. SIGNATURES AND AUTHORITY

The parties hereby warrant that they have authority to enter into this Agreement.

If the undersigned parties choose to submit documents containing electronic signature(s), the Parties waive any objection to the electronic signature by electing the option to do so.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives. This Agreement is effective as of the last date set forth below.

Primary Member Signature: _____ Date: _____

Print Name: _____

Secondary Member Signature: _____ Date: _____

Print Name: _____

PSREC Representative Signature: _____ Date: _____

Print Name: _____ Title: _____