



California Independent  
System Operator Corporation

August 5, 2010

The Honorable Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, D.C. 20426

Re: **California Independent System Operator Corporation**  
**Docket No. ER10-\_\_\_\_\_ -000**

**ISO Service Agreement No. 1645, Non-Conforming Large  
Generator Interconnection Agreement**

Dear Secretary Bose:

The California Independent System Operator Corporation submits for Commission filing and acceptance the Large Generator Interconnection Agreement among the ISO, Southern California Edison Company, and Solar Partners VIII, LLC.<sup>1</sup> On August 2, 2010, SCE filed this same LGIA in Docket No. ER10-2091-000 as non-conforming to the *pro forma* LGIA set forth in the ISO tariff. The ISO is submitting its own filing of this LGIA in order to have it accepted as a non-conforming service agreement of the ISO and to enter it into the ISO's eTariff system consistent with SCE's filing. The ISO requests that the Commission's consideration of this filing be consolidated with the Commission's review of SCE's filing of this same agreement, designated by SCE as its Service Agreement No. 85 under its Transmission Owner Tariff in Docket No. ER10-2091.

**I. Variation from the *Pro Forma* LGIA**

As described in SCE's filing in Docket No. ER10-2091, interconnection of Solar Partners VIII's generating facility is dependent upon the completion of certain components of the Eldorado-Ivanpah transmission project. The LGIA for the generating facility of Solar Partners I, LLC filed in Docket No. ER10-732 incorporates a portion of those facilities as necessary network upgrades to accommodate interconnection of Solar Partners I's generating facility. The LGIA for the generating facility of Solar Partners II, LLC filed in Docket No. ER10-2089

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<sup>1</sup> This filing is submitted pursuant to Section 205 of the Federal Power Act, 16 U.S.C. § 824d and Part 35 of the Commission's regulations, 18 C.F.R. Part 35, and in compliance with Order No. 714, *Electronic Tariff Filings*, FERC Stats. & Regs. ¶ 31,276 (2009). The ISO is also sometimes referred to as the CAISO.

also conditionally incorporates a portion of those facilities as necessary network upgrades to accommodate interconnection of Solar Partners II's generating facility in the event Solar Partners I terminates or suspends work under its LGIA. The LGIA for Solar Partners VIII's generating facility provides that in the event that Solar Partners VIII's generating facility precedes the interconnection of the generating facilities of Solar Partners I and Solar Partners II and SCE does not receive abandoned plant approval for the Eldorado-Ivanpah transmission project, then the Solar Partners VIII LGIA will be amended such that Solar Partners VIII will be responsible to up-front finance the costs associated with the network upgrades identified in Sections 2 and 17 of Appendix 1 to the LGIA. The Solar Partners VIII LGIA provides for this contingency by including provisions in the appendices to the LGIA that may be interpreted as differing from the ISO's *pro forma* LGIA as they relate to SCE's commitment to fund the network upgrades.<sup>2</sup> SCE justified these provisions in its June 14, 2010 compliance filing of the revised Solar Partners I LGIA in Docket No. ER10-732.<sup>3</sup> The ISO is filing this same version of the Solar Partners VIII LGIA as non-conforming ISO Service Agreement No. 1645 in order to have it accepted as a non-conforming service agreement of the ISO and to ensure that its eTariff records of non-conforming service agreements to which both it and SCE are parties are consistent with those of SCE.

## II. Effective Date

In its filing of the Solar Partners VIII LGIA in Docket No. ER10-2091, SCE requested an effective date of August 3, 2010 for this LGIA. The ISO requests that the Commission specify that same effective date for the ISO's filing of this same LGIA in the instant proceeding.

To accommodate the foregoing requested effective date, the ISO respectfully requests waiver, pursuant to Section 35.11 of the Commission's regulations (18 C.F.R. § 35.11), of the 60-day notice requirement contained in Section 35.3 of the Commission's regulations (18 C.F.R. § 35.3), in order to permit the LGIA to become effective as of the requested effective date. As described in SCE's filing of this LGIA in Docket No. ER10-2091, good cause exists in that such waiver will enable SCE to commence engineering, design and

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<sup>2</sup> E.g., Appendix A, Section 7 (Additional Definitions) includes a definition for Abandoned Plant Approval; Section 12(d) (Charges) includes development milestones to ensure that transmission will not be developed before or in absence of generation; and Sections 12(f), -(g), -(h), and -(i) set forth provisions that will apply if Abandoned Plant Approval is not received.

<sup>3</sup> SCE also filed for rehearing in Docket No. ER10-732 regarding the order to remove certain termination provisions from the Solar Partners I LGIA. SCE has not yet received an order on its rehearing request. Therefore, the Solar Partners VIII LGIA retains the *pro forma* termination provisions. To the extent that the Commission orders changes concerning the issues on rehearing in Docket No. ER10-732, the ISO and SCE would conform the Solar Partners VIII LGIA to that order.

procurement of the facilities necessary to interconnect Solar Partners VIII's generating facility to the ISO controlled grid by Solar Partners VIII's requested initial synchronization date, thus facilitating the availability of power to customers in southern California. Granting the waiver will be consistent with prior Commission orders and the implementation by all parties to the LGIA pursuant to those orders. No harm will result to any entity from the specified effective date for the LGIA. Granting the requested waiver, therefore, is appropriate.

### **III. Expenses**

No expense or cost associated with this filing has been alleged or judged in any judicial or administrative proceeding to be illegal, duplicative, unnecessary, or demonstratively the product of discriminatory employment practices.

### **IV. Service**

The ISO has served copies of this transmittal letter and all attachments on the California Public Utilities Commission, the California Energy Commission, SCE, Solar Partners VIII, and the parties to Docket No. ER10-2091. In addition, the ISO is posting this transmittal letter and all attachments on the ISO's website.

Enclosed for filing are each of the following:

- (1) this transmittal letter; and
- (2) a copy of the executed version of the non-conforming LGIA for Solar Partners VIII (Attachment A).

### **V. Correspondence**

The ISO requests that all correspondence, pleadings and other communications concerning this filing be served upon the following:

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18 C.F.R. § 203(b)(3).

**VI. Conclusion**

The ISO respectfully requests that the Commission accept this filing and permit the LGIA for Solar Partners VIII to be effective as of the date requested. If there are any questions concerning this filing, please contact the undersigned.

Respectfully submitted,

**/s/ Michael D. Dozier**

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Non-Conforming Service Agreements  
Service Agreement No. 1645

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**STANDARD LARGE GENERATOR INTERCONNECTION AGREEMENT (LGIA)**

**AMONG**

**SOLAR PARTNERS VIII, LLC**

**AND**

**SOUTHERN CALIFORNIA EDISON COMPANY**

**AND**

**CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION**

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Proposed Effective Date: August 3, 2010  
Version Number: 0.0.0  
Option Code: A

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**STANDARD LARGE GENERATOR INTERCONNECTION AGREEMENT****SOLAR PARTNERS VIII, LLC****SOUTHERN CALIFORNIA EDISON COMPANY****CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION**

**THIS STANDARD LARGE GENERATOR INTERCONNECTION AGREEMENT** ("LGIA") is made and entered into this 30<sup>th</sup> day of JULY 2010, by and among Solar Partners VIII, LLC, a subsidiary of BrightSource Energy, Inc. as successor to Luz II, Inc., a limited liability company organized and existing under the laws of the State/Commonwealth of Delaware ("**Interconnection Customer**" with a Large Generating Facility), Southern California Edison Company, a corporation organized and existing under the laws of the State of California ("**Participating TO**"), and California Independent System Operator Corporation, a California nonprofit public benefit corporation organized and existing under the laws of the State of California ("**CAISO**"). Interconnection Customer, Participating TO, and CAISO each may be referred to as a "Party" or collectively as the "Parties."

**RECITALS**

**WHEREAS**, CAISO exercises Operational Control over the CAISO Controlled Grid; and

**WHEREAS**, the Participating TO owns, operates, and maintains the Participating TO's Transmission System; and

**WHEREAS**, Interconnection Customer intends to own, lease and/or control and operate the Generating Facility identified as a Large Generating Facility in Appendix C to this LGIA; and

**WHEREAS**, Interconnection Customer, Participating TO, and CAISO have agreed to enter into this LGIA for the purpose of interconnecting the Large Generating Facility with the Participating TO's Transmission System;

**NOW, THEREFORE**, in consideration of and subject to the mutual covenants contained herein, it is agreed:

When used in this LGIA, terms with initial capitalization that are not defined in Article 1 shall have the meanings specified in the Article in which they are used.

## ARTICLE 1. DEFINITIONS

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

**Affected System** shall mean an electric system other than the CAISO Controlled Grid that may be affected by the proposed interconnection, including the Participating TO's electric system that is not part of the CAISO Controlled Grid.

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

**Applicable Laws and Regulations** shall mean 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 Council** shall mean the Western Electricity Coordinating Council or its successor.

**Applicable Reliability Standards** shall mean the requirements and guidelines of NERC, the Applicable Reliability Council, and the Balancing Authority Area of the Participating TO's Transmission System to which the Generating Facility is directly connected, including requirements adopted pursuant to Section 215 of the Federal Power Act.

**Balancing Authority** shall mean the responsible entity that integrates resource plans ahead of time, maintains load-interchange-generation balance within a Balancing Authority Area, and supports Interconnection frequency in real time.

**Balancing Authority Area** shall mean the collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains load-resource balance within this area.

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

**Breach** shall mean the failure of a Party to perform or observe any material term or condition of this LGIA.

**Breaching Party** shall mean a Party that is in Breach of this LGIA.

**Business Day** shall mean Monday through Friday, excluding federal holidays and the day after Thanksgiving Day.

**Calendar Day** shall mean any day including Saturday, Sunday or a federal holiday.

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

**Commercial Operation Date** of an Electric Generating Unit shall mean the date on which the Electric Generating Unit at the Generating Facility commences Commercial Operation as agreed to by the applicable Participating TO and the Interconnection Customer pursuant to Appendix E to this LGIA.

**Confidential Information** shall mean any confidential, proprietary or trade secret information of a plan, specification, pattern, procedure, design, device, list, concept, policy or compilation relating to the present or planned business of a Party, which is designated as confidential by the Party supplying the information, whether conveyed orally, electronically, in writing, through inspection, or otherwise, subject to Article 22.1.2.

**Default** shall mean the failure of a Breaching Party to cure its Breach in accordance with Article 17 of this LGIA.

**Distribution System** shall mean those non-CAISO-controlled transmission and distribution facilities owned by the Participating TO.

**Distribution Upgrades** shall mean the additions, modifications, and upgrades to the Participating TO's Distribution System. Distribution Upgrades do not include Interconnection Facilities.

**Effective Date** shall mean the date on which this LGIA becomes effective upon execution by the Parties subject to acceptance by FERC, or if filed unexecuted, upon the date specified by FERC.

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

**Emergency Condition** shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of the CAISO, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the CAISO Controlled Grid or the electric systems of others to which the CAISO Controlled Grid is directly connected; (3) that, in the case of the

Participating TO, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Participating TO's Transmission System, Participating TO's Interconnection Facilities, Distribution System, or the electric systems of others to which the Participating TO's electric system is directly connected; 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 Interconnection Customer's Interconnection Facilities. System restoration and black start shall be considered Emergency Conditions; provided, that Interconnection Customer is not obligated by this LGIA to possess black start capability.

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

**Federal Power Act** shall mean the Federal Power Act, as amended, 16 U.S.C. §§ 791a *et seq.*

**FERC** shall mean the Federal Energy Regulatory Commission or its successor.

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

**Generating Facility** shall mean the Interconnection Customer's Electric Generating Unit(s) used for the production of electricity identified in the Interconnection Customer's Interconnection Request, but shall not include the Interconnection Customer's Interconnection Facilities.

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

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

**Governmental Authority** shall mean any federal, 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; provided, however, that such term does not include the Interconnection Customer, CAISO, Participating TO, or any Affiliate thereof.

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

**Initial Synchronization Date** shall mean the date upon which an Electric Generating Unit is initially synchronized and upon which Trial Operation begins.

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

**Interconnection Customer's Interconnection Facilities** shall mean all facilities and equipment, as identified in Appendix A of this LGIA, 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 Participating TO's Transmission System. Interconnection Customer's Interconnection Facilities are sole use facilities.

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

**Interconnection Facilities Study** shall mean the study conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), or a third party consultant for the Interconnection Customer to determine a list

of facilities (including the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades), the cost of those facilities, and the time required to interconnect the Generating Facility with the Participating TO's Transmission System.

**Interconnection Facilities Study Agreement** shall mean the agreement between the Interconnection Customer and the CAISO for conducting the Interconnection Facilities Study.

**Interconnection Feasibility Study** shall mean the preliminary evaluation conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), or a third party consultant for the Interconnection Customer of the system impact and cost of interconnecting the Generating Facility to the Participating TO's Transmission System.

**Interconnection Handbook** shall mean a handbook, developed by the Participating TO and posted on the Participating TO's web site or otherwise made available by the Participating TO, describing technical and operational requirements for wholesale generators and loads connected to the Participating TO's portion of the CAISO Controlled Grid, as such handbook may be modified or superseded from time to time. Participating TO's standards contained in the Interconnection Handbook shall be deemed consistent with Good Utility Practice and Applicable Reliability Standards. In the event of a conflict between the terms of this LGIA and the terms of the Participating TO's Interconnection Handbook, the terms in this LGIA shall apply.

**Interconnection Request** shall mean a request, in the form of Appendix 1 to the Standard Large Generator Interconnection Procedures, in accordance with the CAISO Tariff.

**Interconnection Service** shall mean the service provided by the Participating TO and CAISO associated with interconnecting the Interconnection Customer's Generating Facility to the Participating TO's Transmission System and enabling the CAISO Controlled Grid to receive electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of this LGIA, the Participating TO's Transmission Owner Tariff, and the CAISO Tariff.

**Interconnection Study** shall mean any of the following studies: the Interconnection Feasibility Study, the Interconnection System Impact Study, and the Interconnection Facilities Study conducted or caused to be performed by the CAISO, in coordination with the applicable Participating TO(s), or a third party consultant for the Interconnection Customer pursuant to the Standard Large Generator Interconnection Procedures.

**Interconnection System Impact Study** shall mean the engineering study conducted or caused to be performed by the CAISO, in coordination with the

applicable Participating TO(s), or a third party consultant for the Interconnection Customer that evaluates the impact of the proposed interconnection on the safety and reliability of the Participating TO's Transmission System and, if applicable, an Affected System. The study shall identify and detail the system impacts that would result if the Generating Facility were interconnected without project modifications or system modifications, focusing on the Adverse System Impacts identified in the Interconnection Feasibility Study, or to study potential impacts, including but not limited to those identified in the Scoping Meeting as described in the Standard Large Generator Interconnection Procedures.

**IRS** shall mean the Internal Revenue Service.

**CAISO Controlled Grid** shall mean 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.

**CAISO Tariff** shall mean the CAISO's tariff, as filed with FERC, and as amended or supplemented from time to time, or any successor tariff.

**Large Generating Facility** shall mean a Generating Facility having a Generating Facility Capacity of more than 20 MW.

**Loss** shall mean any and all damages, losses, and claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties.

**Material Modification** shall mean those modifications that have a material impact on the cost or timing of any Interconnection Request or any other valid interconnection request with a later queue priority date.

**Metering Equipment** shall mean all metering equipment installed or to be installed for measuring the output of the Generating Facility pursuant to this LGIA 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** shall mean the North American Electric Reliability Council or its successor organization.

**Network Upgrades** shall be Participating TO's Delivery Network Upgrades and Participating TO's Reliability Network Upgrades.

**Operational Control** shall mean the rights of the CAISO under the Transmission Control Agreement and the CAISO Tariff to direct the parties to the Transmission Control Agreement how to operate their transmission lines and

facilities and other electric plant affecting the reliability of those lines and facilities for the purpose of affording comparable non-discriminatory transmission access and meeting applicable reliability criteria.

**Participating TO's Delivery Network Upgrades** shall mean the additions, modifications, and upgrades to the Participating TO's Transmission System at or beyond the Point of Interconnection, other than Reliability Network Upgrades, identified in the Interconnection Studies, as identified in Appendix A, to relieve constraints on the CAISO Controlled Grid.

**Participating TO's Interconnection Facilities** shall mean all facilities and equipment owned, controlled or operated by the Participating TO from the Point of Change of Ownership to the Point of Interconnection as identified in Appendix A to this LGIA, including any modifications, additions or upgrades to such facilities and equipment. Participating TO's Interconnection Facilities are sole use facilities and shall not include Distribution Upgrades, Stand Alone Network Upgrades or Network Upgrades.

**Participating TO's Reliability Network Upgrades** shall mean the additions, modifications, and upgrades to the Participating TO's Transmission System at or beyond the Point of Interconnection, identified in the Interconnection Studies, as identified in Appendix A, necessary to interconnect the Large Generating Facility safely and reliably to the Participating TO's Transmission System, which would not have been necessary but for the interconnection of the Large Generating Facility, including additions, modifications, and upgrades necessary to remedy short circuit or stability problems resulting from the interconnection of the Large Generating Facility to the Participating TO's Transmission System. Participating TO's Reliability Network Upgrades also include, consistent with Applicable Reliability Council practice, the Participating TO's facilities necessary to mitigate any adverse impact the Large Generating Facility's interconnection may have on a path's Applicable Reliability Council rating.

**Participating TO's Transmission System** shall mean the facilities owned and operated by the Participating TO and that have been placed under the CAISO's Operational Control, which facilities form part of the CAISO Controlled Grid.

**Party or Parties** shall mean the Participating TO, CAISO, Interconnection Customer or the applicable combination of the above.

**Point of Change of Ownership** shall mean the point, as set forth in Appendix A to this LGIA, where the Interconnection Customer's Interconnection Facilities connect to the Participating TO's Interconnection Facilities.

**Point of Interconnection** shall mean the point, as set forth in Appendix A to this LGIA, where the Interconnection Facilities connect to the Participating TO's Transmission System.

**Qualifying Facility** shall mean a qualifying cogeneration facility or qualifying small power production facility, as defined in the Code of Federal Regulations, Title 18, Part 292 (18 C.F.R. §292).

**QF PGA** shall mean a Qualifying Facility Participating Generator Agreement specifying the special provisions for the operating relationship between a Qualifying Facility and the CAISO, a pro forma version of which is set forth in Appendix B.3 of the CAISO Tariff.

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

**Scoping Meeting** shall mean the meeting among representatives of the Interconnection Customer, the Participating TO(s), other Affected Systems, and the CAISO conducted for the purpose of discussing alternative interconnection options, to exchange information including any transmission data and earlier study evaluations that would be reasonably expected to impact such interconnection options, to analyze such information, and to determine the potential feasible Points of Interconnection.

**Stand Alone Network Upgrades** shall mean Network Upgrades that the Interconnection Customer may construct without affecting day-to-day operations of the CAISO Controlled Grid or Affected Systems during their construction. The Participating TO, the CAISO, and the Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify them in Appendix A to this LGIA.

**Standard Large Generator Interconnection Procedures (LGIP)** shall mean the CAISO protocol that sets forth the interconnection procedures applicable to an Interconnection Request pertaining to a Large Generating Facility that is included in CAISO Tariff Appendix U.

**System Protection Facilities** shall mean the equipment, including necessary protection signal communications equipment, that protects (1) the Participating TO's Transmission System, Participating TO's Interconnection Facilities, CAISO Controlled Grid, and Affected Systems from faults or other electrical disturbances occurring at the Generating Facility and (2) the Generating Facility from faults or other electrical system disturbances occurring on the CAISO Controlled Grid, Participating TO's Interconnection Facilities, and Affected Systems or on other delivery systems or other generating systems to which the CAISO Controlled Grid is directly connected.

**Transmission Control Agreement** shall mean CAISO FERC Electric Tariff No. 7.

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

## ARTICLE 2. EFFECTIVE DATE, TERM AND TERMINATION

- 2.1 Effective Date.** This LGIA shall become effective upon execution by the Parties subject to acceptance by FERC (if applicable), or if filed unexecuted, upon the date specified by FERC. The CAISO and Participating TO shall promptly file this LGIA with FERC upon execution in accordance with Article 3.1, if required.
- 2.2 Term of Agreement.** Subject to the provisions of Article 2.3, this LGIA shall remain in effect for a period of thirty (30) years from the Effective Date and shall be automatically renewed for each successive one-year period thereafter.
- 2.3 Termination Procedures.**
- 2.3.1 Written Notice.** This LGIA may be terminated by the Interconnection Customer after giving the CAISO and the Participating TO ninety (90) Calendar Days advance written notice, or by the CAISO and the Participating TO notifying FERC after the Generating Facility permanently ceases Commercial Operation.
- 2.3.2 Default.** A Party may terminate this LGIA in accordance with Article 17.
- 2.3.3 Suspension of Work.** This LGIA may be deemed terminated in accordance with Article 5.16.
- 2.3.4** Notwithstanding Articles 2.3.1, 2.3.2, and 2.3.3, no termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination, including the filing with FERC of a notice of termination of this LGIA, which notice has been accepted for filing by FERC.
- 2.4 Termination Costs.** If this LGIA terminates pursuant to Article 2.3 above, the Interconnection Customer shall pay all costs incurred or irrevocably committed to be incurred in association with the Interconnection Customer's interconnection (including any cancellation costs relating to orders or contracts for Interconnection Facilities and equipment) and other expenses,

including any Network Upgrades and Distribution Upgrades for which the Participating TO or CAISO has incurred expenses or has irrevocably committed to incur expenses and has not been reimbursed by the Interconnection Customer, as of the date of the other Parties' receipt of the notice of termination, subject to the limitations set forth in this Article 2.4. Nothing in this Article 2.4 shall limit the Parties' rights under Article 17.

**2.4.1** Notwithstanding the foregoing, in the event of termination by a Party, all Parties shall use commercially Reasonable Efforts to mitigate the costs, damages and charges arising as a consequence of termination. With respect to any portion of the Participating TO's Interconnection Facilities that have not yet been constructed or installed, the Participating TO shall to the extent possible and with the Interconnection Customer's authorization cancel any pending orders of, or return, any materials or equipment for, or contracts for construction of, such facilities; provided that in the event the Interconnection Customer elects not to authorize such cancellation, the Interconnection Customer shall assume all payment obligations with respect to such materials, equipment, and contracts, and the Participating TO shall deliver such material and equipment, and, if necessary, assign such contracts, to the Interconnection Customer as soon as practicable, at the Interconnection Customer's expense. To the extent that the Interconnection Customer has already paid the Participating TO for any or all such costs of materials or equipment not taken by the Interconnection Customer, the Participating TO shall promptly refund such amounts to the Interconnection Customer, less any costs, including penalties, incurred by the Participating TO to cancel any pending orders of or return such materials, equipment, or contracts.

**2.4.2** The Participating TO may, at its option, retain any portion of such materials, equipment, or facilities that the Interconnection Customer chooses not to accept delivery of, in which case the Participating TO shall be responsible for all costs associated with procuring such materials, equipment, or facilities.

**2.4.3** With respect to any portion of the Interconnection Facilities, and any other facilities already installed or constructed pursuant to the terms of this LGIA, Interconnection Customer shall be responsible for all costs associated with the removal, relocation or other disposition or retirement of such materials, equipment, or facilities.

**2.5 Disconnection.** Upon termination of this LGIA, the Parties will take all appropriate steps to disconnect the Large Generating Facility from the Participating TO's Transmission System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such

termination resulted from the non-terminating Party's Default of this LGIA or such non-terminating Party otherwise is responsible for these costs under this LGIA.

- 2.6 Survival.** This LGIA shall continue in effect after termination to the extent necessary to provide for final billings and payments and for costs incurred hereunder, including billings and payments pursuant to this LGIA; to permit the determination and enforcement of liability and indemnification obligations arising from acts or events that occurred while this LGIA was in effect; and to permit each Party to have access to the lands of the other Parties pursuant to this LGIA or other applicable agreements, to disconnect, remove or salvage its own facilities and equipment.

### **ARTICLE 3. REGULATORY FILINGS AND CAISO TARIFF COMPLIANCE**

- 3.1 Filing.** The Participating TO and the CAISO shall file this LGIA (and any amendment hereto) with the appropriate Governmental Authority(ies), if required. The Interconnection Customer may request that any information so provided be subject to the confidentiality provisions of Article 22. If the Interconnection Customer has executed this LGIA, or any amendment thereto, the Interconnection Customer shall reasonably cooperate with the Participating TO and CAISO with respect to such filing and to provide any information reasonably requested by the Participating TO or CAISO needed to comply with applicable regulatory requirements.
- 3.2 Agreement Subject to CAISO Tariff.** The Interconnection Customer will comply with all applicable provisions of the CAISO Tariff, including the LGIP.
- 3.3 Relationship Between this LGIA and the CAISO Tariff.** With regard to rights and obligations between the Participating TO and the Interconnection Customer, if and to the extent a matter is specifically addressed by a provision of this LGIA (including any appendices, schedules or other attachments to this LGIA), the provisions of this LGIA shall govern. If and to the extent a provision of this LGIA is inconsistent with the CAISO Tariff and dictates rights and obligations between the CAISO and the Participating TO or the CAISO and the Interconnection Customer, the CAISO Tariff shall govern.
- 3.4 Relationship Between this LGIA and the QF PGA.** With regard to the rights and obligations of a Qualifying Facility that has entered into a QF PGA with the CAISO and has entered into this LGIA, if and to the extent a matter is specifically addressed by a provision of the QF PGA that is inconsistent with this LGIA, the terms of the QF PGA shall govern.

## ARTICLE 4. SCOPE OF SERVICE

- 4.1 Interconnection Service.** Interconnection Service allows the Interconnection Customer to connect the Large Generating Facility to the Participating TO's Transmission System and be eligible to deliver the Large Generating Facility's output using the available capacity of the CAISO Controlled Grid. To the extent the Interconnection Customer wants to receive Interconnection Service, the Participating TO shall construct facilities identified in Appendices A and C that the Participating TO is responsible to construct.

Interconnection Service does not necessarily provide the Interconnection Customer with the capability to physically deliver the output of its Large Generating Facility to any particular load on the CAISO Controlled Grid without incurring congestion costs. In the event of transmission constraints on the CAISO Controlled Grid, the Interconnection Customer's Large Generating Facility shall be subject to the applicable congestion management procedures in the CAISO Tariff in the same manner as all other resources.

- 4.2 Provision of Service.** The Participating TO and the CAISO shall provide Interconnection Service for the Large Generating Facility.
- 4.3 Performance Standards.** Each Party shall perform all of its obligations under this LGIA in accordance with Applicable Laws and Regulations, Applicable Reliability Standards, and Good Utility Practice, and to the extent a Party is required or prevented or limited in taking any action by such regulations and standards, such Party shall not be deemed to be in Breach of this LGIA for its compliance therewith. If such Party is the CAISO or Participating TO, then that Party shall amend the LGIA and submit the amendment to FERC for approval.
- 4.4 No Transmission Service.** The execution of this LGIA does not constitute a request for, nor the provision of, any transmission service under the CAISO Tariff, and does not convey any right to deliver electricity to any specific customer or point of delivery.
- 4.5 Interconnection Customer Provided Services.** The services provided by Interconnection Customer under this LGIA are set forth in Article 9.6 and Article 13.5.1. Interconnection Customer shall be paid for such services in accordance with Article 11.6.

## ARTICLE 5. INTERCONNECTION FACILITIES ENGINEERING, PROCUREMENT, AND CONSTRUCTION

Interconnection Facilities, Network Upgrades, and Distribution Upgrades shall be studied, designed, and constructed pursuant to Good Utility Practice. Such studies,

design and construction shall be based on the assumed accuracy and completeness of all technical information received by the Participating TO and the CAISO from the Interconnection Customer associated with interconnecting the Large Generating Facility.

**5.1 Options.** Unless otherwise mutually agreed among the Parties, the Interconnection Customer shall select the In-Service Date, Initial Synchronization Date, and Commercial Operation Date; and either Standard Option or Alternate Option set forth below for completion of the Participating TO's Interconnection Facilities and Network Upgrades as set forth in Appendix A, Interconnection Facilities, Network Upgrades, and Distribution Upgrades, and such dates and selected option shall be set forth in Appendix B, Milestones.

**5.1.1 Standard Option.** The Participating TO shall design, procure, and construct the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades, using Reasonable Efforts to complete the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades by the dates set forth in Appendix B, Milestones. The Participating TO shall not be required to undertake any action which is inconsistent with its standard safety practices, its material and equipment specifications, its design criteria and construction procedures, its labor agreements, and Applicable Laws and Regulations. In the event the Participating TO reasonably expects that it will not be able to complete the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades by the specified dates, the Participating TO shall promptly provide written notice to the Interconnection Customer and the CAISO and shall undertake Reasonable Efforts to meet the earliest dates thereafter.

**5.1.2 Alternate Option.** If the dates designated by the Interconnection Customer are acceptable to the Participating TO, the Participating TO shall so notify the Interconnection Customer within thirty (30) Calendar Days, and shall assume responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities by the designated dates.

If the Participating TO subsequently fails to complete the Participating TO's Interconnection Facilities by the In-Service Date, to the extent necessary to provide back feed power; or fails to complete Network Upgrades by the Initial Synchronization Date to the extent necessary to allow for Trial Operation at full power output, unless other arrangements are made by the Parties for such Trial Operation; or fails to complete the Network Upgrades by the Commercial Operation Date, as such dates are reflected in Appendix B, Milestones; the

Participating TO shall pay the Interconnection Customer liquidated damages in accordance with Article 5.3, Liquidated Damages, provided, however, the dates designated by the Interconnection Customer shall be extended day for day for each day that the CAISO refuses to grant clearances to install equipment.

**5.1.3 Option to Build.** If the dates designated by the Interconnection Customer are not acceptable to the Participating TO, the Participating TO shall so notify the Interconnection Customer within thirty (30) Calendar Days, and unless the Parties agree otherwise, the Interconnection Customer shall have the option to assume responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades. If the Interconnection Customer elects to exercise its option to assume responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, it shall so notify the Participating TO within thirty (30) Calendar Days of receipt of the Participating TO's notification that the designated dates are not acceptable to the Participating TO. The Participating TO, CAISO, and Interconnection Customer must agree as to what constitutes Stand Alone Network Upgrades and identify such Stand Alone Network Upgrades in Appendix A to this LGIA. Except for Stand Alone Network Upgrades, the Interconnection Customer shall have no right to construct Network Upgrades under this option.

**5.1.4 Negotiated Option.** If the Interconnection Customer elects not to exercise its option under Article 5.1.3, Option to Build, the Interconnection Customer shall so notify the Participating TO within thirty (30) Calendar Days of receipt of the Participating TO's notification that the designated dates are not acceptable to the Participating TO, and the Parties shall in good faith attempt to negotiate terms and conditions (including revision of the specified dates and liquidated damages, the provision of incentives or the procurement and construction of a portion of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades by the Interconnection Customer) pursuant to which the Participating TO is responsible for the design, procurement and construction of the Participating TO's Interconnection Facilities and Network Upgrades. If the Parties are unable to reach agreement on such terms and conditions, the Participating TO shall assume responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities and Network Upgrades pursuant to Article 5.1.1, Standard Option.

**5.2 General Conditions Applicable to Option to Build.** If the Interconnection Customer assumes responsibility for the design, procurement and

construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades,

(1) the Interconnection Customer shall engineer, procure equipment, and construct the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades (or portions thereof) using Good Utility Practice and using standards and specifications provided in advance by the Participating TO;

(2) the Interconnection Customer's engineering, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades shall comply with all requirements of law to which the Participating TO would be subject in the engineering, procurement or construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades;

(3) the Participating TO shall review, and the Interconnection Customer shall obtain the Participating TO's approval of, the engineering design, equipment acceptance tests, and the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, which approval shall not be unreasonably withheld, and the CAISO may, at its option, review the engineering design, equipment acceptance tests, and the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades;

(4) prior to commencement of construction, the Interconnection Customer shall provide to the Participating TO, with a copy to the CAISO for informational purposes, a schedule for construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, and shall promptly respond to requests for information from the Participating TO;

(5) at any time during construction, the Participating TO shall have the right to gain unrestricted access to the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades and to conduct inspections of the same;

(6) at any time during construction, should any phase of the engineering, equipment procurement, or construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades not meet the standards and specifications provided by the Participating TO, the Interconnection Customer shall be obligated to remedy deficiencies in that portion of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades;

(7) the Interconnection Customer shall indemnify the CAISO and Participating TO for claims arising from the Interconnection Customer's construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades under the terms and procedures applicable to Article 18.1 Indemnity;

(8) the Interconnection Customer shall transfer control of the Participating TO's Interconnection Facilities to the Participating TO and shall transfer Operational Control of Stand Alone Network Upgrades to the CAISO;

(9) unless the Parties otherwise agree, the Interconnection Customer shall transfer ownership of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades to the Participating TO. As soon as reasonably practicable, but within twelve months after completion of the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades, the Interconnection Customer shall provide an invoice of the final cost of the construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades to the Participating TO, which invoice shall set forth such costs in sufficient detail to enable the Participating TO to reflect the proper costs of such facilities in its transmission rate base and to identify the investment upon which refunds will be provided;

(10) the Participating TO shall accept for operation and maintenance the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades to the extent engineered, procured, and constructed in accordance with this Article 5.2; and

(11) the Interconnection Customer's engineering, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades shall comply with all requirements of the "Option to Build" conditions set forth in Appendix C. Interconnection Customer shall deliver to the Participating TO "as-built" drawings, information, and any other documents that are reasonably required by the Participating TO to assure that the Interconnection Facilities and Stand-Alone Network Upgrades are built to the standards and specifications required by the Participating TO.

**5.3 Liquidated Damages.** The actual damages to the Interconnection Customer, in the event the Participating TO's Interconnection Facilities or Network Upgrades are not completed by the dates designated by the Interconnection Customer and accepted by the Participating TO pursuant to subparagraphs 5.1.2 or 5.1.4, above, may include Interconnection Customer's fixed operation and maintenance costs and lost opportunity costs. Such actual damages are uncertain and impossible to determine at this time. Because of such

uncertainty, any liquidated damages paid by the Participating TO to the Interconnection Customer in the event that the Participating TO does not complete any portion of the Participating TO's Interconnection Facilities or Network Upgrades by the applicable dates, shall be an amount equal to ½ of 1 percent per day of the actual cost of the Participating TO's Interconnection Facilities and Network Upgrades, in the aggregate, for which the Participating TO has assumed responsibility to design, procure and construct.

However, in no event shall the total liquidated damages exceed 20 percent of the actual cost of the Participating TO's Interconnection Facilities and Network Upgrades for which the Participating TO has assumed responsibility to design, procure, and construct. The foregoing payments will be made by the Participating TO to the Interconnection Customer as just compensation for the damages caused to the Interconnection Customer, which actual damages are uncertain and impossible to determine at this time, and as reasonable liquidated damages, but not as a penalty or a method to secure performance of this LGIA. Liquidated damages, when the Parties agree to them, are the exclusive remedy for the Participating TO's failure to meet its schedule.

No liquidated damages shall be paid to the Interconnection Customer if: (1) the Interconnection Customer is not ready to commence use of the Participating TO's Interconnection Facilities or Network Upgrades to take the delivery of power for the Electric Generating Unit's Trial Operation or to export power from the Electric Generating Unit on the specified dates, unless the Interconnection Customer would have been able to commence use of the Participating TO's Interconnection Facilities or Network Upgrades to take the delivery of power for Electric Generating Unit's Trial Operation or to export power from the Electric Generating Unit, but for the Participating TO's delay; (2) the Participating TO's failure to meet the specified dates is the result of the action or inaction of the Interconnection Customer or any other interconnection customer who has entered into an interconnection agreement with the CAISO and/or Participating TO, action or inaction by the CAISO, or any cause beyond the Participating TO's reasonable control or reasonable ability to cure; (3) the Interconnection Customer has assumed responsibility for the design, procurement and construction of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades; or (4) the Parties have otherwise agreed.

In no event shall the CAISO have any responsibility or liability to the Interconnection Customer for liquidated damages pursuant to the provisions of this Article 5.3.

- 5.4 Power System Stabilizers.** The Interconnection Customer shall procure, install, maintain and operate Power System Stabilizers in accordance with the guidelines and procedures established by the Applicable Reliability Council and in accordance with the provisions of Section 4.6.5.1 of the CAISO Tariff.

The CAISO reserves the right to establish reasonable minimum acceptable settings for any installed Power System Stabilizers, subject to the design and operating limitations of the Large Generating Facility. If the Large Generating Facility's Power System Stabilizers are removed from service or not capable of automatic operation, the Interconnection Customer shall immediately notify the CAISO and the Participating TO and restore the Power System Stabilizers to operation as soon as possible and in accordance with the Reliability Management System Agreement in Appendix G. The CAISO shall have the right to order the reduction in output or disconnection of the Large Generating Facility if the reliability of the CAISO Controlled Grid would be adversely affected as a result of improperly tuned Power System Stabilizers. The requirements of this Article 5.4 shall not apply to wind generators of the induction type.

**5.5 Equipment Procurement.** If responsibility for construction of the Participating TO's Interconnection Facilities or Network Upgrades is to be borne by the Participating TO, then the Participating TO shall commence design of the Participating TO's Interconnection Facilities or Network Upgrades and procure necessary equipment as soon as practicable after all of the following conditions are satisfied, unless the Parties otherwise agree in writing:

**5.5.1** The CAISO, in coordination with the applicable Participating TO(s), has completed the Interconnection Facilities Study pursuant to the Interconnection Facilities Study Agreement;

**5.5.2** The Participating TO has received written authorization to proceed with design and procurement from the Interconnection Customer by the date specified in Appendix B, Milestones; and

**5.5.3** The Interconnection Customer has provided security to the Participating TO in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.

**5.6 Construction Commencement.** The Participating TO shall commence construction of the Participating TO's Interconnection Facilities and Network Upgrades for which it is responsible as soon as practicable after the following additional conditions are satisfied:

**5.6.1** Approval of the appropriate Governmental Authority has been obtained for any facilities requiring regulatory approval;

**5.6.2** Necessary real property rights and rights-of-way have been obtained, to the extent required for the construction of a discrete aspect of the Participating TO's Interconnection Facilities and Network Upgrades;

- 5.6.3** The Participating TO has received written authorization to proceed with construction from the Interconnection Customer by the date specified in Appendix B, Milestones; and
- 5.6.4** The Interconnection Customer has provided payment and security to the Participating TO in accordance with Article 11.5 by the dates specified in Appendix B, Milestones.
- 5.7 Work Progress.** The Parties will keep each other advised periodically as to the progress of their respective design, procurement and construction efforts. Any Party may, at any time, request a progress report from another Party. If, at any time, the Interconnection Customer determines that the completion of the Participating TO's Interconnection Facilities will not be required until after the specified In-Service Date, the Interconnection Customer will provide written notice to the Participating TO and CAISO of such later date upon which the completion of the Participating TO's Interconnection Facilities will be required.
- 5.8 Information Exchange.** As soon as reasonably practicable after the Effective Date, the Parties shall exchange information regarding the design and compatibility of the Interconnection Customer's Interconnection Facilities and Participating TO's Interconnection Facilities and compatibility of the Interconnection Facilities with the Participating TO's Transmission System, and shall work diligently and in good faith to make any necessary design changes.
- 5.9 Limited Operation.** If any of the Participating TO's Interconnection Facilities or Network Upgrades are not reasonably expected to be completed prior to the Commercial Operation Date of the Electric Generating Unit, the Participating TO and/or CAISO, as applicable, shall, upon the request and at the expense of the Interconnection Customer, perform operating studies on a timely basis to determine the extent to which the Electric Generating Unit and the Interconnection Customer's Interconnection Facilities may operate prior to the completion of the Participating TO's Interconnection Facilities or Network Upgrades consistent with Applicable Laws and Regulations, Applicable Reliability Standards, Good Utility Practice, and this LGIA. The Participating TO and CAISO shall permit Interconnection Customer to operate the Electric Generating Unit and the Interconnection Customer's Interconnection Facilities in accordance with the results of such studies.
- 5.10 Interconnection Customer's Interconnection Facilities.** The Interconnection Customer shall, at its expense, design, procure, construct, own and install the Interconnection Customer's Interconnection Facilities, as set forth in Appendix A.

- 5.10.1 Large Generating Facility and Interconnection Customer's Interconnection Facilities Specifications.** The Interconnection Customer shall submit initial specifications for the Interconnection Customer's Interconnection Facilities and Large Generating Facility, including System Protection Facilities, to the Participating TO and the CAISO at least one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date; and final specifications for review and comment at least ninety (90) Calendar Days prior to the Initial Synchronization Date. The Participating TO and the CAISO shall review such specifications pursuant to this LGIA and the LGIP to ensure that the Interconnection Customer's Interconnection Facilities and Large Generating Facility are compatible with the technical specifications, operational control, safety requirements, and any other applicable requirements of the Participating TO and the CAISO and comment on such specifications within thirty (30) Calendar Days of the Interconnection Customer's submission. All specifications provided hereunder shall be deemed confidential.
- 5.10.2 Participating TO's and CAISO's Review.** The Participating TO's and the CAISO's review of the Interconnection Customer's final specifications shall not be construed as confirming, endorsing, or providing a warranty as to the design, fitness, safety, durability or reliability of the Large Generating Facility, or the Interconnection Customer's Interconnection Facilities. Interconnection Customer shall make such changes to the Interconnection Customer's Interconnection Facilities as may reasonably be required by the Participating TO or the CAISO, in accordance with Good Utility Practice, to ensure that the Interconnection Customer's Interconnection Facilities are compatible with the technical specifications, Operational Control, and safety requirements of the Participating TO or the CAISO.
- 5.10.3 Interconnection Customer's Interconnection Facilities Construction.** The Interconnection Customer's Interconnection Facilities shall be designed and constructed in accordance with Good Utility Practice. Within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Participating TO and Interconnection Customer agree on another mutually acceptable deadline, the Interconnection Customer shall deliver to the Participating TO and CAISO "as-built" drawings, information and documents for the Interconnection Customer's Interconnection Facilities and the Electric Generating Unit(s), such as: a one-line diagram, a site plan showing the Large Generating Facility and the Interconnection Customer's Interconnection Facilities, plan and elevation drawings showing the layout of the Interconnection Customer's Interconnection Facilities, a relay functional diagram, relaying AC and DC schematic wiring diagrams and relay settings for

all facilities associated with the Interconnection Customer's step-up transformers, the facilities connecting the Large Generating Facility to the step-up transformers and the Interconnection Customer's Interconnection Facilities, and the impedances (determined by factory tests) for the associated step-up transformers and the Electric Generating Units. The Interconnection Customer shall provide the Participating TO and the CAISO specifications for the excitation system, automatic voltage regulator, Large Generating Facility control and protection settings, transformer tap settings, and communications, if applicable. Any deviations from the relay settings, machine specifications, and other specifications originally submitted by the Interconnection Customer shall be assessed by the Participating TO and the CAISO pursuant to the appropriate provisions of this LGIA and the LGIP.

**5.10.4 Interconnection Customer to Meet Requirements of the Participating TO's Interconnection Handbook.** The Interconnection Customer shall comply with the Participating TO's Interconnection Handbook.

**5.11 Participating TO's Interconnection Facilities Construction.** The Participating TO's Interconnection Facilities shall be designed and constructed in accordance with Good Utility Practice. Upon request, within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless the Participating TO and Interconnection Customer agree on another mutually acceptable deadline, the Participating TO shall deliver to the Interconnection Customer and the CAISO the following "as-built" drawings, information and documents for the Participating TO's Interconnection Facilities. No as-built drawings will be provided.

The Participating TO will obtain control for operating and maintenance purposes of the Participating TO's Interconnection Facilities and Stand Alone Network Upgrades upon completion of such facilities. Pursuant to Article 5.2, the CAISO will obtain Operational Control of the Stand Alone Network Upgrades prior to the Commercial Operation Date.

**5.12 Access Rights.** Upon reasonable notice and supervision by a Party, and subject to any required or necessary regulatory approvals, a Party ("Granting Party") shall furnish at no cost to the other Party ("Access Party") any rights of use, licenses, rights of way and easements with respect to lands owned or controlled by the Granting Party, its agents (if allowed under the applicable agency agreement), or any Affiliate, that are necessary to enable the Access Party to obtain ingress and egress to construct, operate, maintain, repair, test (or witness testing), inspect, replace or remove facilities and equipment to: (i) interconnect the Large Generating Facility with the Participating TO's Transmission System; (ii) operate and maintain the Large Generating Facility,

the Interconnection Facilities and the Participating TO's Transmission System; and (iii) disconnect or remove the Access Party's facilities and equipment upon termination of this LGIA. In exercising such licenses, rights of way and easements, the Access Party shall not unreasonably disrupt or interfere with normal operation of the Granting Party's business and shall adhere to the safety rules and procedures established in advance, as may be changed from time to time, by the Granting Party and provided to the Access Party.

- 5.13 Lands of Other Property Owners.** If any part of the Participating TO's Interconnection Facilities and/or Network Upgrades are to be installed on property owned by persons other than the Interconnection Customer or Participating TO, the Participating TO shall at the Interconnection Customer's expense use efforts, similar in nature and extent to those that it typically undertakes on its own behalf or on behalf of its Affiliates, including use of its eminent domain authority, and to the extent consistent with state law, to procure from such persons any rights of use, licenses, rights of way and easements that are necessary to construct, operate, maintain, test, inspect, replace or remove the Participating TO's Interconnection Facilities and/or Network Upgrades upon such property.
- 5.14 Permits.** Participating TO and Interconnection Customer shall cooperate with each other in good faith in obtaining all permits, licenses and authorization that are necessary to accomplish the interconnection in compliance with Applicable Laws and Regulations. With respect to this paragraph, the Participating TO shall provide permitting assistance to the Interconnection Customer comparable to that provided to the Participating TO's own, or an Affiliate's generation.
- 5.15 Early Construction of Base Case Facilities.** The Interconnection Customer may request the Participating TO to construct, and the Participating TO shall construct, using Reasonable Efforts to accommodate Interconnection Customer's In-Service Date, all or any portion of any Network Upgrades required for Interconnection Customer to be interconnected to the Participating TO's Transmission System which are included in the Base Case of the Interconnection Studies for the Interconnection Customer, and which also are required to be constructed for another interconnection customer, but where such construction is not scheduled to be completed in time to achieve Interconnection Customer's In-Service Date.
- 5.16 Suspension.** The Interconnection Customer reserves the right, upon written notice to the Participating TO and the CAISO, to suspend at any time all work associated with the construction and installation of the Participating TO's Interconnection Facilities, Network Upgrades, and/or Distribution Upgrades required under this LGIA with the condition that the Participating TO's electrical system and the CAISO Controlled Grid shall be left in a safe and

reliable condition in accordance with Good Utility Practice and the Participating TO's safety and reliability criteria and the CAISO's Applicable Reliability Standards. In such event, the Interconnection Customer shall be responsible for all reasonable and necessary costs which the Participating TO (i) has incurred pursuant to this LGIA prior to the suspension and (ii) incurs in suspending such work, including any costs incurred to perform such work as may be necessary to ensure the safety of persons and property and the integrity of the Participating TO's electric system during such suspension and, if applicable, any costs incurred in connection with the cancellation or suspension of material, equipment and labor contracts which the Participating TO cannot reasonably avoid; provided, however, that prior to canceling or suspending any such material, equipment or labor contract, the Participating TO shall obtain Interconnection Customer's authorization to do so.

The Participating TO shall invoice the Interconnection Customer for such costs pursuant to Article 12 and shall use due diligence to minimize its costs. In the event Interconnection Customer suspends work required under this LGIA pursuant to this Article 5.16, and has not requested the Participating TO to recommence the work or has not itself recommenced work required under this LGIA on or before the expiration of three (3) years following commencement of such suspension, this LGIA shall be deemed terminated. The three-year period shall begin on the date the suspension is requested, or the date of the written notice to the Participating TO and the CAISO, if no effective date is specified.

## **5.17 Taxes.**

**5.17.1 Interconnection Customer Payments Not Taxable.** The Parties intend that all payments or property transfers made by the Interconnection Customer to the Participating TO for the installation of the Participating TO's Interconnection Facilities and the Network Upgrades shall be non-taxable, either as contributions to capital, or as a refundable advance, in accordance with the Internal Revenue Code and any applicable state income tax laws and shall not be taxable as contributions in aid of construction or otherwise under the Internal Revenue Code and any applicable state income tax laws.

**5.17.2 Representations And Covenants.** In accordance with IRS Notice 2001-82 and IRS Notice 88-129, the Interconnection Customer represents and covenants that (i) ownership of the electricity generated at the Large Generating Facility will pass to another party prior to the transmission of the electricity on the CAISO Controlled Grid, (ii) for income tax purposes, the amount of any payments and the cost of any property transferred to the Participating TO for the Participating TO's Interconnection Facilities will be capitalized by the Interconnection Customer as an intangible asset and recovered using the straight-line

method over a useful life of twenty (20) years, and (iii) any portion of the Participating TO's Interconnection Facilities that is a "dual-use intertie," within the meaning of IRS Notice 88-129, is reasonably expected to carry only a de minimis amount of electricity in the direction of the Large Generating Facility. For this purpose, "de minimis amount" means no more than 5 percent of the total power flows in both directions, calculated in accordance with the "5 percent test" set forth in IRS Notice 88-129. This is not intended to be an exclusive list of the relevant conditions that must be met to conform to IRS requirements for non-taxable treatment.

At the Participating TO's request, the Interconnection Customer shall provide the Participating TO with a report from an independent engineer confirming its representation in clause (iii), above. The Participating TO represents and covenants that the cost of the Participating TO's Interconnection Facilities paid for by the Interconnection Customer without the possibility of refund or credit will have no net effect on the base upon which rates are determined.

**5.17.3 Indemnification for the Cost Consequence of Current Tax Liability Imposed Upon the Participating TO.** Notwithstanding Article 5.17.1, the Interconnection Customer shall protect, indemnify and hold harmless the Participating TO from the cost consequences of any current tax liability imposed against the Participating TO as the result of payments or property transfers made by the Interconnection Customer to the Participating TO under this LGIA for Interconnection Facilities, as well as any interest and penalties, other than interest and penalties attributable to any delay caused by the Participating TO.

The Participating TO shall not include a gross-up for the cost consequences of any current tax liability in the amounts it charges the Interconnection Customer under this LGIA unless (i) the Participating TO has determined, in good faith, that the payments or property transfers made by the Interconnection Customer to the Participating TO should be reported as income subject to taxation or (ii) any Governmental Authority directs the Participating TO to report payments or property as income subject to taxation; provided, however, that the Participating TO may require the Interconnection Customer to provide security for Interconnection Facilities, in a form reasonably acceptable to the Participating TO (such as a parental guarantee or a letter of credit), in an amount equal to the cost consequences of any current tax liability under this Article 5.17. The Interconnection Customer shall reimburse the Participating TO for such costs on a fully grossed-up basis, in accordance with Article 5.17.4, within thirty (30) Calendar Days of receiving written notification from the Participating TO of the amount due, including detail about how the amount was calculated.

The indemnification obligation shall terminate at the earlier of (1) the expiration of the ten year testing period and the applicable statute of limitation, as it may be extended by the Participating TO upon request of the IRS, to keep these years open for audit or adjustment, or (2) the occurrence of a subsequent taxable event and the payment of any related indemnification obligations as contemplated by this Article 5.17.

**5.17.4 Tax Gross-Up Amount.** The Interconnection Customer's liability for the cost consequences of any current tax liability under this Article 5.17 shall be calculated on a fully grossed-up basis. Except as may otherwise be agreed to by the parties, this means that the Interconnection Customer will pay the Participating TO, in addition to the amount paid for the Interconnection Facilities and Network Upgrades, an amount equal to (1) the current taxes imposed on the Participating TO ("Current Taxes") on the excess of (a) the gross income realized by the Participating TO as a result of payments or property transfers made by the Interconnection Customer to the Participating TO under this LGIA (without regard to any payments under this Article 5.17) (the "Gross Income Amount") over (b) the present value of future tax deductions for depreciation that will be available as a result of such payments or property transfers (the "Present Value Depreciation Amount"), plus (2) an additional amount sufficient to permit the Participating TO to receive and retain, after the payment of all Current Taxes, an amount equal to the net amount described in clause (1).

For this purpose, (i) Current Taxes shall be computed based on the Participating TO's composite federal and state tax rates at the time the payments or property transfers are received and the Participating TO will be treated as being subject to tax at the highest marginal rates in effect at that time (the "Current Tax Rate"), and (ii) the Present Value Depreciation Amount shall be computed by discounting the Participating TO's anticipated tax depreciation deductions as a result of such payments or property transfers by the Participating TO's current weighted average cost of capital. Thus, the formula for calculating the Interconnection Customer's liability to the Participating TO pursuant to this Article 5.17.4 can be expressed as follows:  $(\text{Current Tax Rate} \times (\text{Gross Income Amount} - \text{Present Value of Tax Depreciation})) / (1 - \text{Current Tax Rate})$ . Interconnection Customer's estimated tax liability in the event taxes are imposed shall be stated in Appendix A, Interconnection Facilities, Network Upgrades and Distribution Upgrades.

**5.17.5 Private Letter Ruling or Change or Clarification of Law.** At the Interconnection Customer's request and expense, the Participating TO shall file with the IRS a request for a private letter ruling as to whether

any property transferred or sums paid, or to be paid, by the Interconnection Customer to the Participating TO under this LGIA are subject to federal income taxation. The Interconnection Customer will prepare the initial draft of the request for a private letter ruling, and will certify under penalties of perjury that all facts represented in such request are true and accurate to the best of the Interconnection Customer's knowledge. The Participating TO and Interconnection Customer shall cooperate in good faith with respect to the submission of such request, provided, however, the Interconnection Customer and the Participating TO explicitly acknowledge (and nothing herein is intended to alter) Participating TO's obligation under law to certify that the facts presented in the ruling request are true, correct and complete.

The Participating TO shall keep the Interconnection Customer fully informed of the status of such request for a private letter ruling and shall execute either a privacy act waiver or a limited power of attorney, in a form acceptable to the IRS, that authorizes the Interconnection Customer to participate in all discussions with the IRS regarding such request for a private letter ruling. The Participating TO shall allow the Interconnection Customer to attend all meetings with IRS officials about the request and shall permit the Interconnection Customer to prepare the initial drafts of any follow-up letters in connection with the request.

**5.17.6 Subsequent Taxable Events.** If, within 10 years from the date on which the relevant Participating TO's Interconnection Facilities are placed in service, (i) the Interconnection Customer Breaches the covenants contained in Article 5.17.2, (ii) a "disqualification event" occurs within the meaning of IRS Notice 88-129, or (iii) this LGIA terminates and the Participating TO retains ownership of the Interconnection Facilities and Network Upgrades, the Interconnection Customer shall pay a tax gross-up for the cost consequences of any current tax liability imposed on the Participating TO, calculated using the methodology described in Article 5.17.4 and in accordance with IRS Notice 90-60.

**5.17.7 Contests.** In the event any Governmental Authority determines that the Participating TO's receipt of payments or property constitutes income that is subject to taxation, the Participating TO shall notify the Interconnection Customer, in writing, within thirty (30) Calendar Days of receiving notification of such determination by a Governmental Authority. Upon the timely written request by the Interconnection Customer and at the Interconnection Customer's sole expense, the Participating TO may appeal, protest, seek abatement of, or otherwise oppose such determination. Upon the Interconnection Customer's written request and sole expense, the Participating TO may file a claim

for refund with respect to any taxes paid under this Article 5.17, whether or not it has received such a determination. The Participating TO reserve the right to make all decisions with regard to the prosecution of such appeal, protest, abatement or other contest, including the selection of counsel and compromise or settlement of the claim, but the Participating TO shall keep the Interconnection Customer informed, shall consider in good faith suggestions from the Interconnection Customer about the conduct of the contest, and shall reasonably permit the Interconnection Customer or an Interconnection Customer representative to attend contest proceedings.

The Interconnection Customer shall pay to the Participating TO on a periodic basis, as invoiced by the Participating TO, the Participating TO's documented reasonable costs of prosecuting such appeal, protest, abatement or other contest, including any costs associated with obtaining the opinion of independent tax counsel described in this Article 5.17.7. The Participating TO may abandon any contest if the Interconnection Customer fails to provide payment to the Participating TO within thirty (30) Calendar Days of receiving such invoice.

At any time during the contest, the Participating TO may agree to a settlement either with the Interconnection Customer's consent or, if such consent is refused, after obtaining written advice from independent nationally-recognized tax counsel, selected by the Participating TO, but reasonably acceptable to the Interconnection Customer, that the proposed settlement represents a reasonable settlement given the hazards of litigation. The Interconnection Customer's obligation shall be based on the amount of the settlement agreed to by the Interconnection Customer, or if a higher amount, so much of the settlement that is supported by the written advice from nationally-recognized tax counsel selected under the terms of the preceding paragraph. The settlement amount shall be calculated on a fully grossed-up basis to cover any related cost consequences of the current tax liability. The Participating TO may also settle any tax controversy without receiving the Interconnection Customer's consent or any such written advice; however, any such settlement will relieve the Interconnection Customer from any obligation to indemnify the Participating TO for the tax at issue in the contest (unless the failure to obtain written advice is attributable to the Interconnection Customer's unreasonable refusal to the appointment of independent tax counsel).

**5.17.8 Refund.** In the event that (a) a private letter ruling is issued to the Participating TO which holds that any amount paid or the value of any property transferred by the Interconnection Customer to the Participating TO under the terms of this LGIA is not subject to federal income taxation, (b) any legislative change or administrative

announcement, notice, ruling or other determination makes it reasonably clear to the Participating TO in good faith that any amount paid or the value of any property transferred by the Interconnection Customer to the Participating TO under the terms of this LGIA is not taxable to the Participating TO, (c) any abatement, appeal, protest, or other contest results in a determination that any payments or transfers made by the Interconnection Customer to the Participating TO are not subject to federal income tax, or (d) if the Participating TO receives a refund from any taxing authority for any overpayment of tax attributable to any payment or property transfer made by the Interconnection Customer to the Participating TO pursuant to this LGIA, the Participating TO shall promptly refund to the Interconnection Customer the following:

(i) any payment made by Interconnection Customer under this Article 5.17 for taxes that is attributable to the amount determined to be non-taxable, together with interest thereon,

(ii) interest on any amounts paid by the Interconnection Customer to the Participating TO for such taxes which the Participating TO did not submit to the taxing authority, calculated in accordance with the methodology set forth in FERC's regulations at 18 C.F.R. §35.19a(a)(2)(iii) from the date payment was made by the Interconnection Customer to the date the Participating TO refunds such payment to the Interconnection Customer, and

(iii) with respect to any such taxes paid by the Participating TO, any refund or credit the Participating TO receives or to which it may be entitled from any Governmental Authority, interest (or that portion thereof attributable to the payment described in clause (i), above) owed to the Participating TO for such overpayment of taxes (including any reduction in interest otherwise payable by the Participating TO to any Governmental Authority resulting from an offset or credit); provided, however, that the Participating TO will remit such amount promptly to the Interconnection Customer only after and to the extent that the Participating TO has received a tax refund, credit or offset from any Governmental Authority for any applicable overpayment of income tax related to the Participating TO's Interconnection Facilities.

The intent of this provision is to leave the Parties, to the extent practicable, in the event that no taxes are due with respect to any payment for Interconnection Facilities and Network Upgrades

hereunder, in the same position they would have been in had no such tax payments been made.

**5.17.9 Taxes Other Than Income Taxes.** Upon the timely request by the Interconnection Customer, and at the Interconnection Customer's sole expense, the CAISO or Participating TO may appeal, protest, seek abatement of, or otherwise contest any tax (other than federal or state income tax) asserted or assessed against the CAISO or Participating TO for which the Interconnection Customer may be required to reimburse the CAISO or Participating TO under the terms of this LGIA. The Interconnection Customer shall pay to the Participating TO on a periodic basis, as invoiced by the Participating TO, the Participating TO's documented reasonable costs of prosecuting such appeal, protest, abatement, or other contest. The Interconnection Customer, the CAISO, and the Participating TO shall cooperate in good faith with respect to any such contest. Unless the payment of such taxes is a prerequisite to an appeal or abatement or cannot be deferred, no amount shall be payable by the Interconnection Customer to the CAISO or Participating TO for such taxes until they are assessed by a final, non-appealable order by any court or agency of competent jurisdiction. In the event that a tax payment is withheld and ultimately due and payable after appeal, the Interconnection Customer will be responsible for all taxes, interest and penalties, other than penalties attributable to any delay caused by the Participating TO.

**5.18 Tax Status.** Each Party shall cooperate with the others to maintain the other Parties' tax status. Nothing in this LGIA is intended to adversely affect the CAISO's or any Participating TO's tax exempt status with respect to the issuance of bonds including, but not limited to, Local Furnishing Bonds.

**5.19 Modification.**

**5.19.1 General.** The Interconnection Customer or the Participating TO may undertake modifications to its facilities, subject to the provisions of this LGIA and the CAISO Tariff. If a Party plans to undertake a modification that reasonably may be expected to affect the other Parties' facilities, that Party shall provide to the other Parties sufficient information regarding such modification so that the other Parties may evaluate the potential impact of such modification prior to commencement of the work. Such information shall be deemed to be confidential hereunder and shall include information concerning the timing of such modifications and whether such modifications are expected to interrupt the flow of electricity from the Large Generating Facility. The Party desiring to perform such work shall provide the relevant drawings, plans, and specifications to the other Parties at least ninety (90) Calendar Days in advance of the commencement of

the work or such shorter period upon which the Parties may agree, which agreement shall not unreasonably be withheld, conditioned or delayed.

In the case of Large Generating Facility modifications that do not require the Interconnection Customer to submit an Interconnection Request, the CAISO or Participating TO shall provide, within thirty (30) Calendar Days (or such other time as the Parties may agree), an estimate of any additional modifications to the CAISO Controlled Grid, Participating TO's Interconnection Facilities, Network Upgrades or Distribution Upgrades necessitated by such Interconnection Customer modification and a good faith estimate of the costs thereof. The Participating TO and the CAISO shall determine if a Large Generating Facility modification is a Material Modification in accordance with the LGIP.

**5.19.2 Standards.** Any additions, modifications, or replacements made to a Party's facilities shall be designed, constructed and operated in accordance with this LGIA and Good Utility Practice.

**5.19.3 Modification Costs.** The Interconnection Customer shall not be directly assigned the costs of any additions, modifications, or replacements that the Participating TO makes to the Participating TO's Interconnection Facilities or the Participating TO's Transmission System to facilitate the interconnection of a third party to the Participating TO's Interconnection Facilities or the Participating TO's Transmission System, or to provide transmission service to a third party under the CAISO Tariff. The Interconnection Customer shall be responsible for the costs of any additions, modifications, or replacements to the Interconnection Facilities that may be necessary to maintain or upgrade such Interconnection Facilities consistent with Applicable Laws and Regulations, Applicable Reliability Standards or Good Utility Practice.

## ARTICLE 6. TESTING AND INSPECTION

**6.1 Pre-Commercial Operation Date Testing and Modifications.** Prior to the Commercial Operation Date, the Participating TO shall test the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades and the Interconnection Customer shall test the Large Generating Facility and the Interconnection Customer's Interconnection Facilities to ensure their safe and reliable operation. Similar testing may be required after initial operation. Each Party shall make any modifications to its facilities that are found to be necessary as a result of such testing. The Interconnection Customer shall bear the cost of all such testing and modifications. The Interconnection Customer shall not commence initial parallel operation of an Electric

Generating Unit with the Participating TO's Transmission System until the Participating TO provides prior written approval, which approval shall not be unreasonably withheld, for operation of such Electric Generating Unit. The Interconnection Customer shall generate test energy at the Large Generating Facility only if it has arranged for the delivery of such test energy.

- 6.2 Post-Commercial Operation Date Testing and Modifications.** Each Party shall at its own expense perform routine inspection and testing of its facilities and equipment in accordance with Good Utility Practice as may be necessary to ensure the continued interconnection of the Large Generating Facility with the Participating TO's Transmission 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 Good Utility Practice.
- 6.3 Right to Observe Testing.** Each Party shall notify the other Parties at least fourteen (14) days in advance of its performance of tests of its Interconnection Facilities or Generating Facility. The other Parties have the right, at their own expense, to observe such testing.
- 6.4 Right to Inspect.** Each Party shall have the right, but shall have no obligation to: (i) observe another Party's tests and/or inspection of any of its System Protection Facilities and other protective equipment, including Power System Stabilizers; (ii) review the settings of another Party's System Protection Facilities and other protective equipment; and (iii) review another Party's maintenance records relative to the Interconnection Facilities, the System Protection Facilities and other protective equipment. A Party may exercise these rights from time to time as it deems necessary upon reasonable notice to the other Party. The exercise or non-exercise by a Party of any such rights shall not be construed as an endorsement or confirmation of any element or condition of the Interconnection Facilities or the System Protection Facilities or other protective equipment or the operation thereof, or as a warranty as to the fitness, safety, desirability, or reliability of same. Any information that a Party obtains through the exercise of any of its rights under this Article 6.4 shall be deemed to be Confidential Information and treated pursuant to Article 22 of this LGIA.

## ARTICLE 7. METERING

- 7.1 General.** Each Party shall comply with the Applicable Reliability Council requirements. The Interconnection Customer and CAISO shall comply with the provisions of the CAISO Tariff regarding metering, including Section 10 of the CAISO Tariff. Unless otherwise agreed by the Participating TO and the Interconnection Customer, the Participating TO may install additional Metering Equipment at the Point of Interconnection prior to any operation of

any Electric Generating Unit and shall own, operate, test and maintain such Metering Equipment. Power flows to and from the Large Generating Facility shall be measured at or, at the CAISO's or Participating TO's option for its respective Metering Equipment, compensated to, the Point of Interconnection. The CAISO shall provide metering quantities to the Interconnection Customer upon request in accordance with the CAISO Tariff by directly polling the CAISO's meter data acquisition system. The Interconnection Customer shall bear all reasonable documented costs associated with the purchase, installation, operation, testing and maintenance of the Metering Equipment.

- 7.2 Check Meters.** The Interconnection Customer, at its option and expense, may install and operate, on its premises and on its side of the Point of Interconnection, one or more check meters to check the CAISO-pollled meters or the Participating TO's meters. Such check meters shall be for check purposes only and shall not be used for the measurement of power flows for purposes of this LGIA, except in the case that no other means are available on a temporary basis at the option of the CAISO or the Participating TO. The check meters shall be subject at all reasonable times to inspection and examination by the CAISO or Participating TO or their designees. The installation, operation and maintenance thereof shall be performed entirely by the Interconnection Customer in accordance with Good Utility Practice.
- 7.3 Participating TO Retail Metering.** The Participating TO may install retail revenue quality meters and associated equipment, pursuant to the Participating TO's applicable retail tariffs.

## ARTICLE 8. COMMUNICATIONS

- 8.1 Interconnection Customer Obligations.** The Interconnection Customer shall maintain satisfactory operating communications with the CAISO in accordance with the provisions of the CAISO Tariff and with the Participating TO's dispatcher or representative designated by the Participating TO. The Interconnection Customer shall provide standard voice line, dedicated voice line and facsimile communications at its Large Generating Facility control room or central dispatch facility through use of either the public telephone system, or a voice communications system that does not rely on the public telephone system. The Interconnection Customer shall also provide the dedicated data circuit(s) necessary to provide Interconnection Customer data to the CAISO and Participating TO as set forth in Appendix D, Security Arrangements Details. The data circuit(s) shall extend from the Large Generating Facility to the location(s) specified by the CAISO and Participating TO. Any required maintenance of such communications equipment shall be performed by the Interconnection Customer. Operational communications shall be activated and maintained under, but not be limited to, the following

events: system paralleling or separation, scheduled and unscheduled shutdowns, equipment clearances, and hourly and daily load data.

**8.2 Remote Terminal Unit.** Prior to the Initial Synchronization Date of each Electric Generating Unit, a Remote Terminal Unit, or equivalent data collection and transfer equipment acceptable to the Parties, shall be installed by the Interconnection Customer, or by the Participating TO at the Interconnection Customer's expense, to gather accumulated and instantaneous data to be telemetered to the location(s) designated by the CAISO and by the Participating TO through use of a dedicated point-to-point data circuit(s) as indicated in Article 8.1.

Telemetry to the CAISO shall be provided in accordance with the CAISO's technical standards for direct telemetry. For telemetry to the Participating TO, the communication protocol for the data circuit(s) shall be specified by the Participating TO. Instantaneous bi-directional real power and reactive power flow and any other required information must be telemetered directly to the location(s) specified by the Participating TO.

Each Party will promptly advise the other Parties if it detects or otherwise learns of any metering, telemetry or communications equipment errors or malfunctions that require the attention and/or correction by another Party. The Party owning such equipment shall correct such error or malfunction as soon as reasonably feasible.

**8.3 No Annexation.** Any and all equipment placed on the premises of a Party shall be and remain the property of the Party providing such equipment regardless of the mode and manner of annexation or attachment to real property, unless otherwise mutually agreed by the Parties.

## ARTICLE 9. OPERATIONS

**9.1 General.** Each Party shall comply with the Applicable Reliability Council requirements, and the Interconnection Customer shall execute the Reliability Management System Agreement of the Applicable Reliability Council attached hereto as Appendix G. Each Party shall provide to the other Party all information that may reasonably be required by the other Party to comply with Applicable Laws and Regulations and Applicable Reliability Standards.

**9.2 Balancing Authority Area Notification.** At least three months before Initial Synchronization Date, the Interconnection Customer shall notify the CAISO and Participating TO in writing of the Balancing Authority Area in which the Large Generating Facility intends to be located. If the Interconnection Customer intends to locate the Large Generating Facility in a Balancing Authority Area other than the Balancing Authority Area within whose electrically metered boundaries the Large Generating Facility is located, and if

permitted to do so by the relevant transmission tariffs, all necessary arrangements, including but not limited to those set forth in Article 7 and Article 8 of this LGIA, and remote Balancing Authority Area generator interchange agreements, if applicable, and the appropriate measures under such agreements, shall be executed and implemented prior to the placement of the Large Generating Facility in the other Balancing Authority Area.

**9.3 CAISO and Participating TO Obligations.** The CAISO and Participating TO shall cause the Participating TO's Transmission System to be operated and controlled in a safe and reliable manner and in accordance with this LGIA. The Participating TO at the Interconnection Customer's expense shall cause the Participating TO's Interconnection Facilities to be operated, maintained and controlled in a safe and reliable manner and in accordance with this LGIA. The CAISO and Participating TO may provide operating instructions to the Interconnection Customer consistent with this LGIA and Participating TO and CAISO operating protocols and procedures as they may change from time to time. The Participating TO and CAISO will consider changes to their operating protocols and procedures proposed by the Interconnection Customer.

**9.4 Interconnection Customer Obligations.** The Interconnection Customer shall at its own expense operate, maintain and control the Large Generating Facility and the Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this LGIA. The Interconnection Customer shall operate the Large Generating Facility and the Interconnection Customer's Interconnection Facilities in accordance with all applicable requirements of the Balancing Authority Area of which it is part, including such requirements as set forth in Appendix C, Interconnection Details, of this LGIA. Appendix C, Interconnection Details, will be modified to reflect changes to the requirements as they may change from time to time. A Party may request that another Party provide copies of the requirements set forth in Appendix C, Interconnection Details, of this LGIA. The Interconnection Customer shall not commence Commercial Operation of an Electric Generating Unit with the Participating TO's Transmission System until the Participating TO provides prior written approval, which approval shall not be unreasonably withheld, for operation of such Electric Generating Unit.

**9.5 Start-Up and Synchronization.** Consistent with the Parties' mutually acceptable procedures, the Interconnection Customer is responsible for the proper synchronization of each Electric Generating Unit to the CAISO Controlled Grid.

**9.6 Reactive Power.**

**9.6.1 Power Factor Design Criteria.** The Interconnection Customer shall design the Large Generating Facility to maintain a composite power

delivery at continuous rated power output at the terminals of the Electric Generating Unit at a power factor within the range of 0.95 leading to 0.90 lagging, unless the CAISO has established different requirements that apply to all generators in the Balancing Authority Area on a comparable basis. Power factor design criteria for wind generators are provided in Appendix H of this LGIA.

**9.6.2 Voltage Schedules.** Once the Interconnection Customer has synchronized an Electric Generating Unit with the CAISO Controlled Grid, the CAISO or Participating TO shall require the Interconnection Customer to maintain a voltage schedule by operating the Electric Generating Unit to produce or absorb reactive power within the design limitations of the Electric Generating Unit set forth in Article 9.6.1 (Power Factor Design Criteria). CAISO's voltage schedules shall treat all sources of reactive power in the Balancing Authority Area in an equitable and not unduly discriminatory manner. The Participating TO shall exercise Reasonable Efforts to provide the Interconnection Customer with such schedules at least one (1) day in advance, and the CAISO or Participating TO may make changes to such schedules as necessary to maintain the reliability of the CAISO Controlled Grid or the Participating TO's electric system. The Interconnection Customer shall operate the Electric Generating Unit to maintain the specified output voltage or power factor within the design limitations of the Electric Generating Unit set forth in Article 9.6.1 (Power Factor Design Criteria), and as may be required by the CAISO to operate the Electric Generating Unit at a specific voltage schedule within the design limitations set forth in Article 9.6.1. If the Interconnection Customer is unable to maintain the specified voltage or power factor, it shall promptly notify the CAISO and the Participating TO.

**9.6.2.1 Governors and Regulators.** Whenever an Electric Generating Unit is operated in parallel with the CAISO Controlled Grid and the speed governors (if installed on the Electric Generating Unit pursuant to Good Utility Practice) and voltage regulators are capable of operation, the Interconnection Customer shall operate the Electric Generating Unit with its speed governors and voltage regulators in automatic operation. If the Electric Generating Unit's speed governors and voltage regulators are not capable of such automatic operation, the Interconnection Customer shall immediately notify the CAISO and the Participating TO and ensure that the Electric Generating Unit operates as specified in Article 9.6.2 through manual operation and that such Electric Generating Unit's reactive power production or absorption (measured in MVARs) are within the design capability of the Electric Generating Unit(s) and steady state stability limits. The Interconnection Customer shall

restore the speed governors and voltage regulators to automatic operation as soon as possible and in accordance with the Reliability Management System Agreement in Appendix G. If the Large Generating Facility's speed governors and voltage regulators are improperly tuned or malfunctioning, the CAISO shall have the right to order the reduction in output or disconnection of the Large Generating Facility if the reliability of the CAISO Controlled Grid would be adversely affected. The Interconnection Customer shall not cause its Large Generating Facility to disconnect automatically or instantaneously from the CAISO Controlled Grid or trip any Electric Generating Unit comprising the Large Generating Facility for an under or over frequency condition unless the abnormal frequency condition persists for a time period beyond the limits set forth in ANSI/IEEE Standard C37.106, or such other standard as applied to other generators in the Balancing Authority Area on a comparable basis.

**9.6.3 Payment for Reactive Power.** CAISO is required to pay the Interconnection Customer for reactive power that Interconnection Customer provides or absorbs from an Electric Generating Unit when the CAISO requests the Interconnection Customer to operate its Electric Generating Unit outside the range specified in Article 9.6.1, provided that if the CAISO pays other generators for reactive power service within the specified range, it must also pay the Interconnection Customer. Payments shall be pursuant to Article 11.6 or such other agreement to which the CAISO and Interconnection Customer have otherwise agreed.

## **9.7 Outages and Interruptions.**

### **9.7.1 Outages.**

**9.7.1.1 Outage Authority and Coordination.** Each Party may in accordance with Good Utility Practice in coordination with the other Parties remove from service any of its respective Interconnection Facilities or Network Upgrades that may impact another Party's facilities as necessary to perform maintenance or testing or to install or replace equipment. Absent an Emergency Condition, the Party scheduling a removal of such facility(ies) from service will use Reasonable Efforts to schedule such removal on a date and time mutually acceptable to all Parties. In all circumstances any Party planning to remove such facility(ies) from service shall use Reasonable Efforts to minimize the effect on the other Parties of such removal.

**9.7.1.2 Outage Schedules.** The CAISO shall post scheduled outages of CAISO Controlled Grid facilities in accordance with the provisions of the CAISO Tariff. The Interconnection Customer shall submit its planned maintenance schedules for the Large Generating Facility to the CAISO in accordance with the CAISO Tariff. The Interconnection Customer shall update its planned maintenance schedules in accordance with the CAISO Tariff. The CAISO may request the Interconnection Customer to reschedule its maintenance as necessary to maintain the reliability of the CAISO Controlled Grid in accordance with the CAISO Tariff. Such planned maintenance schedules and updates and changes to such schedules shall be provided by the Interconnection Customer to the Participating TO concurrently with their submittal to the CAISO. The CAISO shall compensate the Interconnection Customer for any additional direct costs that the Interconnection Customer incurs as a result of having to reschedule maintenance in accordance with the CAISO Tariff. The Interconnection Customer will not be eligible to receive compensation, if during the twelve (12) months prior to the date of the scheduled maintenance, the Interconnection Customer had modified its schedule of maintenance activities.

**9.7.1.3 Outage Restoration.** If an outage on a Party's Interconnection Facilities or Network Upgrades adversely affects another Party's operations or facilities, the Party that owns or controls the facility that is out of service shall use Reasonable Efforts to promptly restore such facility(ies) to a normal operating condition consistent with the nature of the outage. The Party that owns or controls the facility that is out of service shall provide the other Parties, to the extent such information is known, information on the nature of the Emergency Condition, if the outage is caused by an Emergency Condition, an estimated time of restoration, and any corrective actions required. Initial verbal notice shall be followed up as soon as practicable with written notice explaining the nature of the outage, if requested by a Party, which may be provided by e-mail or facsimile.

**9.7.2 Interruption of Service.** If required by Good Utility Practice to do so, the CAISO or the Participating TO may require the Interconnection Customer to interrupt or reduce deliveries of electricity if such delivery of electricity could adversely affect the CAISO's or the Participating TO's ability to perform such activities as are necessary to safely and reliably operate and maintain the Participating TO's electric system or

the CAISO Controlled Grid. The following provisions shall apply to any interruption or reduction permitted under this Article 9.7.2:

- 9.7.2.1** The interruption or reduction shall continue only for so long as reasonably necessary under Good Utility Practice;
- 9.7.2.2** Any such interruption or reduction shall be made on an equitable, non-discriminatory basis with respect to all generating facilities directly connected to the CAISO Controlled Grid, subject to any conditions specified in this LGIA;
- 9.7.2.3** When the interruption or reduction must be made under circumstances which do not allow for advance notice, the CAISO or Participating TO, as applicable, shall notify the Interconnection Customer by telephone as soon as practicable of the reasons for the curtailment, interruption, or reduction, and, if known, its expected duration. Telephone notification shall be followed by written notification, if requested by the Interconnection Customer, as soon as practicable;
- 9.7.2.4** Except during the existence of an Emergency Condition, the CAISO or Participating TO shall notify the Interconnection Customer in advance regarding the timing of such interruption or reduction and further notify the Interconnection Customer of the expected duration. The CAISO or Participating TO shall coordinate with the Interconnection Customer using Good Utility Practice to schedule the interruption or reduction during periods of least impact to the Interconnection Customer, the CAISO, and the Participating TO;
- 9.7.2.5** The Parties shall cooperate and coordinate with each other to the extent necessary in order to restore the Large Generating Facility, Interconnection Facilities, the Participating TO's Transmission System, and the CAISO Controlled Grid to their normal operating state, consistent with system conditions and Good Utility Practice.
- 9.7.3 Under-Frequency and Over Frequency Conditions.** The CAISO Controlled Grid is designed to automatically activate a load-shed program as required by the Applicable Reliability Council in the event of an under-frequency system disturbance. The Interconnection Customer shall implement under-frequency and over-frequency protection set points for the Large Generating Facility as required by the Applicable Reliability Council to ensure "ride through" capability. Large Generating Facility response to frequency deviations of pre-determined magnitudes, both under-frequency and over-frequency

deviations, shall be studied and coordinated with the Participating TO and CAISO in accordance with Good Utility Practice. The term "ride through" as used herein shall mean the ability of a Generating Facility to stay connected to and synchronized with the CAISO Controlled Grid during system disturbances within a range of under-frequency and over-frequency conditions, in accordance with Good Utility Practice.

#### **9.7.4 System Protection and Other Control Requirements.**

**9.7.4.1 System Protection Facilities.** The Interconnection Customer shall, at its expense, install, operate and maintain System Protection Facilities as a part of the Large Generating Facility or the Interconnection Customer's Interconnection Facilities. The Participating TO shall install at the Interconnection Customer's expense any System Protection Facilities that may be required on the Participating TO's Interconnection Facilities or the Participating TO's Transmission System as a result of the interconnection of the Large Generating Facility and the Interconnection Customer's Interconnection Facilities.

**9.7.4.2** The Participating TO's and Interconnection Customer's protection facilities shall be designed and coordinated with other systems in accordance with Applicable Reliability Council criteria and Good Utility Practice.

**9.7.4.3** The Participating TO and Interconnection Customer shall each be responsible for protection of its facilities consistent with Good Utility Practice.

**9.7.4.4** The Participating TO's and Interconnection Customer's protective relay design shall incorporate the necessary test switches to perform the tests required in Article 6. The required test switches will be placed such that they allow operation of lockout relays while preventing breaker failure schemes from operating and causing unnecessary breaker operations and/or the tripping of the Interconnection Customer's Electric Generating Units.

**9.7.4.5** The Participating TO and Interconnection Customer will test, operate and maintain System Protection Facilities in accordance with Good Utility Practice and, if applicable, the requirements of the Participating TO's Interconnection Handbook.

**9.7.4.6** Prior to the in-service date, and again prior to the Commercial Operation Date, the Participating TO and Interconnection Customer or their agents shall perform a complete calibration test and functional trip test of the System Protection Facilities. At intervals suggested by Good Utility Practice, the standards and procedures of the Participating TO, including, if applicable, the requirements of the Participating TO's Interconnection Handbook, and following any apparent malfunction of the System Protection Facilities, each Party shall perform both calibration and functional trip tests of its System Protection Facilities. These tests do not require the tripping of any in-service generation unit. These tests do, however, require that all protective relays and lockout contacts be activated.

**9.7.5 Requirements for Protection.** In compliance with Good Utility Practice and, if applicable, the requirements of the Participating TO's Interconnection Handbook, the Interconnection Customer shall provide, install, own, and maintain relays, circuit breakers and all other devices necessary to remove any fault contribution of the Large Generating Facility to any short circuit occurring on the Participating TO's Transmission System not otherwise isolated by the Participating TO's equipment, such that the removal of the fault contribution shall be coordinated with the protective requirements of the Participating TO's Transmission System. Such protective equipment shall include, without limitation, a disconnecting device with fault current-interrupting capability located between the Large Generating Facility and the Participating TO's Transmission System at a site selected upon mutual agreement (not to be unreasonably withheld, conditioned or delayed) of the Parties. The Interconnection Customer shall be responsible for protection of the Large Generating Facility and the Interconnection Customer's other equipment from such conditions as negative sequence currents, over- or under-frequency, sudden load rejection, over- or under-voltage, and generator loss-of-field. The Interconnection Customer shall be solely responsible to disconnect the Large Generating Facility and the Interconnection Customer's other equipment if conditions on the CAISO Controlled Grid could adversely affect the Large Generating Facility.

**9.7.6 Power Quality.** Neither the Participating TO's nor the Interconnection Customer's facilities shall cause excessive voltage flicker nor introduce excessive distortion to the sinusoidal voltage or current waves as defined by ANSI Standard C84.1-1989, in accordance with IEEE Standard 519, any applicable superseding electric industry standard, or any alternative Applicable Reliability Council standard. In the event of a conflict between ANSI Standard C84.1-1989, any applicable superseding electric industry standard, or any alternative Applicable

Reliability Council standard, the alternative Applicable Reliability Council standard shall control.

**9.8 Switching and Tagging Rules.** Each Party shall provide the other Parties a copy of its switching and tagging rules that are applicable to the other Parties' activities. Such switching and tagging rules shall be developed on a non-discriminatory basis. The Parties shall comply with applicable switching and tagging rules, as amended from time to time, in obtaining clearances for work or for switching operations on equipment.

**9.9 Use of Interconnection Facilities by Third Parties.**

**9.9.1 Purpose of Interconnection Facilities.** Except as may be required by Applicable Laws and Regulations, or as otherwise agreed to among the Parties, the Interconnection Facilities shall be constructed for the sole purpose of interconnecting the Large Generating Facility to the Participating TO's Transmission System and shall be used for no other purpose.

**9.9.2 Third Party Users.** If required by Applicable Laws and Regulations or if the Parties mutually agree, such agreement not to be unreasonably withheld, to allow one or more third parties to use the Participating TO's Interconnection Facilities, or any part thereof, the Interconnection Customer will be entitled to compensation for the capital expenses it incurred in connection with the Interconnection Facilities based upon the pro rata use of the Interconnection Facilities by the Participating TO, all third party users, and the Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually-agreed upon methodology. In addition, cost responsibility for ongoing costs, including operation and maintenance costs associated with the Interconnection Facilities, will be allocated between the Interconnection Customer and any third party users based upon the pro rata use of the Interconnection Facilities by the Participating TO, all third party users, and the Interconnection Customer, in accordance with Applicable Laws and Regulations or upon some other mutually agreed upon methodology. If the issue of such compensation or allocation cannot be resolved through such negotiations, it shall be submitted to FERC for resolution.

**9.10 Disturbance Analysis Data Exchange.** The Parties will cooperate with one another in the analysis of disturbances to either the Large Generating Facility or the CAISO Controlled Grid by gathering and providing access to any information relating to any disturbance, including information from oscillography, protective relay targets, breaker operations and sequence of events records, and any disturbance information required by Good Utility Practice.

## ARTICLE 10. MAINTENANCE

- 10.1 Participating TO Obligations.** The Participating TO shall maintain the Participating TO's Transmission System and the Participating TO's Interconnection Facilities in a safe and reliable manner and in accordance with this LGIA.
- 10.2 Interconnection Customer Obligations.** The Interconnection Customer shall maintain the Large Generating Facility and the Interconnection Customer's Interconnection Facilities in a safe and reliable manner and in accordance with this LGIA.
- 10.3 Coordination.** The Parties shall confer regularly to coordinate the planning, scheduling and performance of preventive and corrective maintenance on the Large Generating Facility and the Interconnection Facilities.
- 10.4 Secondary Systems.** The Participating TO and Interconnection Customer shall cooperate with the other Parties in the inspection, maintenance, and testing of control or power circuits that operate below 600 volts, AC or DC, including, but not limited to, any hardware, control or protective devices, cables, conductors, electric raceways, secondary equipment panels, transducers, batteries, chargers, and voltage and current transformers that directly affect the operation of a Party's facilities and equipment which may reasonably be expected to impact the other Parties. Each Party shall provide advance notice to the other Parties before undertaking any work on such circuits, especially on electrical circuits involving circuit breaker trip and close contacts, current transformers, or potential transformers.
- 10.5 Operating and Maintenance Expenses.** Subject to the provisions herein addressing the use of facilities by others, and except for operations and maintenance expenses associated with modifications made for providing interconnection or transmission service to a third party and such third party pays for such expenses, the Interconnection Customer shall be responsible for all reasonable expenses including overheads, associated with: (1) owning, operating, maintaining, repairing, and replacing the Interconnection Customer's Interconnection Facilities; and (2) operation, maintenance, repair and replacement of the Participating TO's Interconnection Facilities.

## ARTICLE 11. PERFORMANCE OBLIGATION

- 11.1 Interconnection Customer's Interconnection Facilities.** The Interconnection Customer shall design, procure, construct, install, own and/or control the Interconnection Customer's Interconnection Facilities described in Appendix A at its sole expense.
- 11.2 Participating TO's Interconnection Facilities.** The Participating TO shall design, procure, construct, install, own and/or control the Participating TO's Interconnection Facilities described in Appendix A at the sole expense of the Interconnection Customer. Unless the Participating TO elects to fund the capital for the Participating TO's Interconnection Facilities, they shall be solely funded by the Interconnection Customer.
- 11.3 Network Upgrades and Distribution Upgrades.** The Participating TO shall design, procure, construct, install, and own the Network Upgrades and Distribution Upgrades described in Appendix A. The Interconnection Customer shall be responsible for all costs related to Distribution Upgrades. Unless the Participating TO elects to fund the capital for the Distribution Upgrades and Network Upgrades, they shall be solely funded by the Interconnection Customer.
- 11.4 Transmission Credits.** No later than thirty (30) days prior to the Commercial Operation Date, the Interconnection Customer may make a one-time election by written notice to the CAISO and the Participating TO to receive Congestion Revenue Rights as defined in and as available under the CAISO Tariff at the time of the election in accordance with the CAISO Tariff, in lieu of a refund of the cost of Network Upgrades in accordance with Article 11.4.1.
- 11.4.1 Repayment of Amounts Advanced for Network Upgrades.** Upon the Commercial Operation Date, the Interconnection Customer shall be entitled to a repayment, equal to the total amount paid to the Participating TO for the cost of Network Upgrades. Such amount shall include any tax gross-up or other tax-related payments associated with Network Upgrades not refunded to the Interconnection Customer pursuant to Article 5.17.8 or otherwise, and shall be paid to the Interconnection Customer by the Participating TO on a dollar-for-dollar basis either through (1) direct payments made on a levelized basis over the five-year period commencing on the Commercial Operation Date; or (2) any alternative payment schedule that is mutually agreeable to the Interconnection Customer and Participating TO, provided that such amount is paid within five (5) years from the Commercial Operation Date. Notwithstanding the foregoing, if this LGIA terminates within five (5) years from the Commercial Operation

Date, the Participating TO's obligation to pay refunds to the Interconnection Customer shall cease as of the date of termination. Any repayment shall include interest calculated in accordance with the methodology set forth in FERC's regulations at 18 C.F.R. §35.19a(a)(2)(iii) from the date of any payment for Network Upgrades through the date on which the Interconnection Customer receives a repayment of such payment. Interest shall continue to accrue on the repayment obligation so long as this LGIA is in effect. The Interconnection Customer may assign such repayment rights to any person.

If the Large Generating Facility fails to achieve commercial operation, but it or another Generating Facility is later constructed and makes use of the Network Upgrades, the Participating TO shall at that time reimburse Interconnection Customer for the amounts advanced for the Network Upgrades. Before any such reimbursement can occur, the Interconnection Customer, or the entity that ultimately constructs the Generating Facility, if different, is responsible for identifying the entity to which reimbursement must be made.

**11.4.2 Special Provisions for Affected Systems.** The Interconnection Customer shall enter into an agreement with the owner of the Affected System and/or other affected owners of portions of the CAISO Controlled Grid, as applicable, in accordance with the LGIP. Such agreement shall specify the terms governing payments to be made by the Interconnection Customer to the owner of the Affected System and/or other affected owners of portions of the CAISO Controlled Grid as well as the repayment by the owner of the Affected System and/or other affected owners of portions of the CAISO Controlled Grid. In no event shall the Participating TO be responsible for the repayment for any facilities that are not part of the Participating TO's Transmission System.

**11.4.3** Notwithstanding any other provision of this LGIA, nothing herein shall be construed as relinquishing or foreclosing any rights, including but not limited to firm transmission rights, capacity rights, Congestion Revenue Rights, or transmission credits, that the Interconnection Customer shall be entitled to, now or in the future under any other agreement or tariff as a result of, or otherwise associated with, the transmission capacity, if any, created by the Network Upgrades, including the right to obtain cash reimbursements or transmission credits for transmission service that is not associated with the Large Generating Facility.

**11.5 Provision of Security.** At least thirty (30) Calendar Days prior to the commencement of the procurement, installation, or construction of a discrete

portion of a Participating TO's Interconnection Facilities, Network Upgrades, or Distribution Upgrades, the Interconnection Customer shall provide the Participating TO, at the Interconnection Customer's option, a guarantee, a surety bond, letter of credit or other form of security that is reasonably acceptable to the Participating TO and is consistent with the Uniform Commercial Code of the jurisdiction identified in Article 14.2.1. Such security for payment shall be in an amount sufficient to cover the costs for constructing, procuring and installing the applicable portion of the Participating TO's Interconnection Facilities, Network Upgrades, or Distribution Upgrades. Such security shall be reduced on a dollar-for-dollar basis for payments made to the Participating TO for these purposes.

In addition:

**11.5.1** The guarantee must be made by an entity that meets the creditworthiness requirements of the Participating TO, and contain terms and conditions that guarantee payment of any amount that may be due from the Interconnection Customer, up to an agreed-to maximum amount.

**11.5.2** The letter of credit must be issued by a financial institution reasonably acceptable to the Participating TO and must specify a reasonable expiration date.

**11.5.3** The surety bond must be issued by an insurer reasonably acceptable to the Participating TO and must specify a reasonable expiration date.

**11.6 Interconnection Customer Compensation.** If the CAISO requests or directs the Interconnection Customer to provide a service pursuant to Articles 9.6.3 (Payment for Reactive Power) or 13.5.1 of this LGIA, the CAISO shall compensate the Interconnection Customer in accordance with the CAISO Tariff.

**11.6.1 Interconnection Customer Compensation for Actions During Emergency Condition.** The CAISO shall compensate the Interconnection Customer in accordance with the CAISO Tariff for its provision of real and reactive power and other Emergency Condition services that the Interconnection Customer provides to support the CAISO Controlled Grid during an Emergency Condition in accordance with Article 11.6.

## ARTICLE 12. INVOICE

**12.1 General.** The Participating TO shall submit to the Interconnection Customer, on a monthly basis, invoices of amounts due pursuant to this LGIA for the

preceding month. Each invoice shall state the month to which the invoice applies and fully describe the services and equipment provided. The Parties may discharge mutual debts and payment obligations due and owing to each other on the same date through netting, in which case all amounts a Party owes to the other Party under this LGIA, including interest payments or credits, shall be netted so that only the net amount remaining due shall be paid by the owing Party. Notwithstanding the foregoing, any invoices between the CAISO and another Party shall be submitted and paid in accordance with the CAISO Tariff.

- 12.2 Final Invoice.** As soon as reasonably practicable, but within twelve months after completion of the construction of the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades, the Participating TO shall provide an invoice of the final cost of the construction of the Participating TO's Interconnection Facilities, Network Upgrades, and Distribution Upgrades, and shall set forth such costs in sufficient detail to enable the Interconnection Customer to compare the actual costs with the estimates and to ascertain deviations, if any, from the cost estimates. The Participating TO shall refund to the Interconnection Customer any amount by which the actual payment by the Interconnection Customer for estimated costs exceeds the actual costs of construction within thirty (30) Calendar Days of the issuance of such final construction invoice; or, in the event the actual costs of construction exceed the Interconnection Customer's actual payment for estimated costs, then the Interconnection Customer shall pay to the Participating TO any amount by which the actual costs of construction exceed the actual payment by the Interconnection Customer for estimated costs within thirty (30) Calendar Days of the issuance of such final construction invoice.
- 12.3 Payment.** Invoices shall be rendered to the Interconnection Customer at the address specified in Appendix F. The Interconnection Customer shall pay, or Participating TO shall refund, the amounts due within thirty (30) Calendar Days of the Interconnection Customer's receipt of the invoice. All payments shall be made in immediately available funds payable to the Interconnection Customer or Participating TO, or by wire transfer to a bank named and account designated by the invoicing Interconnection Customer or Participating TO. Payment of invoices by any Party will not constitute a waiver of any rights or claims any Party may have under this LGIA.
- 12.4 Disputes.** In the event of a billing dispute between the Interconnection Customer and the Participating TO, the Participating TO and the CAISO shall continue to provide Interconnection Service under this LGIA as long as the Interconnection Customer: (i) continues to make all payments not in dispute; and (ii) pays to the Participating TO or into an independent escrow account the portion of the invoice in dispute, pending resolution of such dispute. If the Interconnection Customer fails to meet these two requirements for continuation of service, then the Participating TO may provide notice to the

Interconnection Customer of a Default pursuant to Article 17. Within thirty (30) Calendar Days after the resolution of the dispute, the Party that owes money to the other Party shall pay the amount due with interest calculated in accordance with the methodology set forth in FERC's Regulations at 18 C.F.R. § 35.19a(a)(2)(iii). Notwithstanding the foregoing, any billing dispute between the CAISO and another Party shall be resolved in accordance with the provisions of Article 27 of this LGIA.

## ARTICLE 13. EMERGENCIES

### 13.1 [Reserved]

**13.2 Obligations.** Each Party shall comply with the Emergency Condition procedures of the CAISO, NERC, the Applicable Reliability Council, Applicable Laws and Regulations, and any emergency procedures set forth in this LGIA.

**13.3 Notice.** The Participating TO or the CAISO shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that affects the Participating TO's Interconnection Facilities or Distribution System or the CAISO Controlled Grid, respectively, that may reasonably be expected to affect the Interconnection Customer's operation of the Large Generating Facility or the Interconnection Customer's Interconnection Facilities. The Interconnection Customer shall notify the Participating TO and the CAISO promptly when it becomes aware of an Emergency Condition that affects the Large Generating Facility or the Interconnection Customer's Interconnection Facilities that may reasonably be expected to affect the CAISO Controlled Grid or the Participating TO's Interconnection Facilities. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of the Interconnection Customer's or Participating TO's facilities and operations, its anticipated duration and the corrective action taken and/or to be taken. The initial notice shall be followed as soon as practicable with written notice, if requested by a Party, which may be provided by electronic mail or facsimile, or in the case of the CAISO may be publicly posted on the CAISO's internet web site.

**13.4 Immediate Action.** Unless, in the Interconnection Customer's reasonable judgment, immediate action is required, the Interconnection Customer shall obtain the consent of the CAISO and the Participating TO, such consent to not be unreasonably withheld, prior to performing any manual switching operations at the Large Generating Facility or the Interconnection Customer's Interconnection Facilities in response to an Emergency Condition declared by the Participating TO or CAISO or in response to any other emergency condition.

## 13.5 CAISO and Participating TO Authority.

**13.5.1 General.** The CAISO and Participating TO may take whatever actions or inactions, including issuance of dispatch instructions, with regard to the CAISO Controlled Grid or the Participating TO's Interconnection Facilities or Distribution System they deem necessary during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the CAISO Controlled Grid or the Participating TO's Interconnection Facilities or Distribution System, and (iii) limit or prevent damage, and (iv) expedite restoration of service.

The Participating TO and the CAISO shall use Reasonable Efforts to minimize the effect of such actions or inactions on the Large Generating Facility or the Interconnection Customer's Interconnection Facilities. The Participating TO or the CAISO may, on the basis of technical considerations, require the Large Generating Facility to mitigate an Emergency Condition by taking actions necessary and limited in scope to remedy the Emergency Condition, including, but not limited to, directing the Interconnection Customer to shut-down, start-up, increase or decrease the real or reactive power output of the Large Generating Facility; implementing a reduction or disconnection pursuant to Article 13.5.2; directing the Interconnection Customer to assist with black start (if available) or restoration efforts; or altering the outage schedules of the Large Generating Facility and the Interconnection Customer's Interconnection Facilities. Interconnection Customer shall comply with all of the CAISO's and Participating TO's operating instructions concerning Large Generating Facility real power and reactive power output within the manufacturer's design limitations of the Large Generating Facility's equipment that is in service and physically available for operation at the time, in compliance with Applicable Laws and Regulations.

**13.5.2 Reduction and Disconnection.** The Participating TO or the CAISO may reduce Interconnection Service or disconnect the Large Generating Facility or the Interconnection Customer's Interconnection Facilities when such reduction or disconnection is necessary under Good Utility Practice due to Emergency Conditions. These rights are separate and distinct from any right of curtailment of the CAISO pursuant to the CAISO Tariff. When the CAISO or Participating TO can schedule the reduction or disconnection in advance, the CAISO or Participating TO shall notify the Interconnection Customer of the reasons, timing and expected duration of the reduction or disconnection. The CAISO or Participating TO shall coordinate with the Interconnection Customer using Good Utility Practice to schedule the reduction or disconnection during periods of least impact to the

Interconnection Customer and the CAISO and Participating TO. Any reduction or disconnection shall continue only for so long as reasonably necessary under Good Utility Practice. The Parties shall cooperate with each other to restore the Large Generating Facility, the Interconnection Facilities, and the CAISO Controlled Grid to their normal operating state as soon as practicable consistent with Good Utility Practice.

- 13.6 Interconnection Customer Authority.** Consistent with Good Utility Practice, this LGIA, and the CAISO Tariff, the Interconnection Customer may take actions or inactions with regard to the Large Generating Facility or the Interconnection Customer's Interconnection Facilities during an Emergency Condition in order to (i) preserve public health and safety, (ii) preserve the reliability of the Large Generating Facility or the Interconnection Customer's Interconnection Facilities, (iii) limit or prevent damage, and (iv) expedite restoration of service. Interconnection Customer shall use Reasonable Efforts to minimize the effect of such actions or inactions on the CAISO Controlled Grid and the Participating TO's Interconnection Facilities. The CAISO and Participating TO shall use Reasonable Efforts to assist Interconnection Customer in such actions.
- 13.7 Limited Liability.** Except as otherwise provided in Article 11.6.1 of this LGIA, no Party shall be liable to any other Party for any action it takes in responding to an Emergency Condition so long as such action is made in good faith and is consistent with Good Utility Practice.

## **ARTICLE 14. REGULATORY REQUIREMENTS AND GOVERNING LAW**

- 14.1 Regulatory Requirements.** Each Party's obligations under this LGIA shall be subject to its receipt of any required approval or certificate from one or more Governmental Authorities in the form and substance satisfactory to the applying Party, or the Party making any required filings with, or providing notice to, such Governmental Authorities, and the expiration of any time period associated therewith. Each Party shall in good faith seek and use its Reasonable Efforts to obtain such other approvals. Nothing in this LGIA shall require the Interconnection Customer to take any action that could result in its inability to obtain, or its loss of, status or exemption under the Federal Power Act or the Public Utility Holding Company Act of 1935, as amended, or the Public Utility Regulatory Policies Act of 1978, or the Energy Policy Act of 2005.
- 14.2 Governing Law.**
- 14.2.1** The validity, interpretation and performance of this LGIA and each of its provisions shall be governed by the laws of the state where the

Point of Interconnection is located, without regard to its conflicts of law principles.

**14.2.2** This LGIA is subject to all Applicable Laws and Regulations.

**14.2.3** Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, rules, or regulations of a Governmental Authority.

## ARTICLE 15. NOTICES

**15.1 General.** Unless otherwise provided in this LGIA, any notice, demand or request required or permitted to be given by a Party to another and any instrument required or permitted to be tendered or delivered by a Party in writing to another shall be effective when delivered and may be so given, tendered or delivered, by recognized national courier, or by depositing the same with the United States Postal Service with postage prepaid, for delivery by certified or registered mail, addressed to the Party, or personally delivered to the Party, at the address set out in Appendix F, Addresses for Delivery of Notices and Billings.

A Party must update the information in Appendix F as information changes. A Party may change the notice information in this LGIA by giving five (5) Business Days written notice prior to the effective date of the change. Such changes shall not constitute an amendment to this LGIA.

**15.2 Billings and Payments.** Billings and payments shall be sent to the addresses set out in Appendix F.

**15.3 Alternative Forms of Notice.** Any notice or request required or permitted to be given by a Party to another and not required by this LGIA to be given in writing may be so given by telephone, facsimile or e-mail to the telephone numbers and e-mail addresses set out in Appendix F.

**15.4 Operations and Maintenance Notice.** Each Party shall notify the other Parties in writing of the identity of the person(s) that it designates as the point(s) of contact with respect to the implementation of Articles 9 and 10.

## ARTICLE 16. FORCE MAJEURE

### 16.1 Force Majeure.

**16.1.1** Economic hardship is not considered a Force Majeure event.

**16.1.2** No Party shall be considered to be in Default with respect to any obligation hereunder, (including obligations under Article 4), other than the obligation to pay money when due, if prevented from fulfilling such obligation by Force Majeure. A Party unable to fulfill any obligation hereunder (other than an obligation to pay money when due) by reason of Force Majeure shall give notice and the full particulars of such Force Majeure to the other Party in writing or by telephone as soon as reasonably possible after the occurrence of the cause relied upon. Telephone notices given pursuant to this Article shall be confirmed in writing as soon as reasonably possible and shall specifically state full particulars of the Force Majeure, the time and date when the Force Majeure occurred and when the Force Majeure is reasonably expected to cease. The Party affected shall exercise due diligence to remove such disability with reasonable dispatch, but shall not be required to accede or agree to any provision not satisfactory to it in order to settle and terminate a strike or other labor disturbance.

## ARTICLE 17. DEFAULT

### 17.1 Default

**17.1.1 General.** No Default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of Force Majeure as defined in this LGIA or the result of an act or omission of the other Party. Upon a Breach, the affected non-Breaching Party(ies) shall give written notice of such Breach to the Breaching Party. Except as provided in Article 17.1.2, the Breaching Party shall have thirty (30) Calendar Days from receipt of the Default notice within which to cure such Breach; provided however, if such Breach is not capable of cure within thirty (30) Calendar Days, the Breaching Party shall commence such cure within thirty (30) Calendar Days after notice and continuously and diligently complete such cure within ninety (90) Calendar Days from receipt of the Default notice; and, if cured within such time, the Breach specified in such notice shall cease to exist.

**17.1.2 Right to Terminate.** If a Breach is not cured as provided in this Article, or if a Breach is not capable of being cured within the period provided for herein, the affected non-Breaching Party(ies) shall have the right to declare a Default and terminate this LGIA by written notice at any time until cure occurs, and be relieved of any further obligation

hereunder and, whether or not such Party(ies) terminates this LGIA, to recover from the Breaching Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this Article will survive termination of this LGIA.

## **ARTICLE 18. INDEMNITY, CONSEQUENTIAL DAMAGES AND INSURANCE**

**18.1 Indemnity.** Each Party shall at all times indemnify, defend, and hold the other Parties harmless from, any and all Losses arising out of or resulting from another Party's action or inactions of its obligations under this LGIA on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the Indemnified Party.

**18.1.1 Indemnified Party.** If an Indemnified Party is entitled to indemnification under this Article 18 as a result of a claim by a third party, and the Indemnifying Party fails, after notice and reasonable opportunity to proceed under Article 18.1, to assume the defense of such claim, such Indemnified 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.

**18.1.2 Indemnifying Party.** If an Indemnifying Party is obligated to indemnify and hold any Indemnified Party harmless under this Article 18, the amount owing to the Indemnified Party shall be the amount of such Indemnified Party's actual Loss, net of any insurance or other recovery.

**18.1.3 Indemnity Procedures.** Promptly after receipt by an Indemnified Party of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in Article 18.1 may apply, the Indemnified Party shall notify the Indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

The Indemnifying Party shall have the right to assume the defense thereof with counsel designated by such Indemnifying Party and reasonably satisfactory to the Indemnified Party. If the defendants in any such action include one or more Indemnified Parties and the Indemnifying Party and if the Indemnified Party reasonably concludes that there may be legal defenses available to it and/or other Indemnified Parties which are different from or additional to those available to the Indemnifying Party, the Indemnified Party shall have the right to select separate

counsel to assert such legal defenses and to otherwise participate in the defense of such action on its own behalf. In such instances, the Indemnifying Party shall only be required to pay the fees and expenses of one additional attorney to represent an Indemnified Party or Indemnified Parties having such differing or additional legal defenses.

The Indemnified Party shall be entitled, at its expense, to participate in any such action, suit or proceeding, the defense of which has been assumed by the Indemnifying Party. Notwithstanding the foregoing, the Indemnifying Party (i) shall not be entitled to assume and control the defense of any such action, suit or proceedings if and to the extent that, in the opinion of the Indemnified Party and its counsel, such action, suit or proceeding involves the potential imposition of criminal liability on the Indemnified Party, or there exists a conflict or adversity of interest between the Indemnified Party and the Indemnifying Party, in such event the Indemnifying Party shall pay the reasonable expenses of the Indemnified Party, and (ii) shall not settle or consent to the entry of any judgment in any action, suit or proceeding without the consent of the Indemnified Party, which shall not be unreasonably withheld, conditioned or delayed.

**18.2 Consequential Damages.** Other than the liquidated damages heretofore described in Article 5.3, in no event shall any Party be liable under any provision of this LGIA for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to another Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

**18.3 Insurance.** Each Party shall, at its own expense, maintain in force throughout the period of this LGIA, and until released by the other Parties, the following minimum insurance coverages, with insurers rated no less than A- (with a minimum size rating of VII) by Bests' Insurance Guide and Key Ratings and authorized to do business in the state where the Point of Interconnection is located, except in the case of the CAISO, the State of California:

**18.3.1** Employer's Liability and Workers' Compensation Insurance providing statutory benefits in accordance with the laws and regulations of the state in which the Point of Interconnection is located, except in the case of the CAISO, the State of California.

- 18.3.2** Commercial General Liability Insurance including premises and operations, personal injury, broad form property damage, broad form blanket contractual liability coverage (including coverage for the contractual indemnification) products and completed operations coverage, coverage for explosion, collapse and underground hazards, independent contractors coverage, coverage for pollution to the extent normally available and punitive damages to the extent normally available and a cross liability endorsement, with minimum limits of One Million Dollars (\$1,000,000) per occurrence/One Million Dollars (\$1,000,000) aggregate combined single limit for personal injury, bodily injury, including death and property damage.
- 18.3.3** Business Automobile Liability Insurance for coverage of owned and non-owned and hired vehicles, trailers or semi-trailers designed for travel on public roads, with a minimum, combined single limit of One Million Dollars (\$1,000,000) per occurrence for bodily injury, including death, and property damage.
- 18.3.4** Excess Public Liability Insurance over and above the Employer's Liability Commercial General Liability and Business Automobile Liability Insurance coverage, with a minimum combined single limit of Twenty Million Dollars (\$20,000,000) per occurrence/Twenty Million Dollars (\$20,000,000) aggregate.
- 18.3.5** The Commercial General Liability Insurance, Business Automobile Insurance and Excess Public Liability Insurance policies shall name the other Parties, their parents, associated and Affiliate companies and their respective directors, officers, agents, servants and employees ("Other Party Group") as additional insured. All policies shall contain provisions whereby the insurers waive all rights of subrogation in accordance with the provisions of this LGIA against the Other Party Group and provide thirty (30) Calendar Days advance written notice to the Other Party Group prior to anniversary date of cancellation or any material change in coverage or condition.
- 18.3.6** The Commercial General Liability Insurance, Business Automobile Liability Insurance and Excess Public Liability Insurance policies shall contain provisions that specify that the policies are primary and shall apply to such extent without consideration for other policies separately carried and shall state that each insured is provided coverage as though a separate policy had been issued to each, except the insurer's liability shall not be increased beyond the amount for which the insurer would have been liable had only one insured been covered. Each Party shall be responsible for its respective deductibles or retentions.

- 18.3.7** The Commercial General Liability Insurance, Business Automobile Liability Insurance and Excess Public Liability Insurance policies, if written on a Claims First Made Basis, shall be maintained in full force and effect for two (2) years after termination of this LGIA, which coverage may be in the form of tail coverage or extended reporting period coverage if agreed by the Parties.
- 18.3.8** The requirements contained herein as to the types and limits of all insurance to be maintained by the Parties are not intended to and shall not in any manner, limit or qualify the liabilities and obligations assumed by the Parties under this LGIA.
- 18.3.9** Within ten (10) Calendar Days following execution of this LGIA, and as soon as practicable after the end of each fiscal year or at the renewal of the insurance policy and in any event within ninety (90) Calendar Days thereafter, each Party shall provide certification of all insurance required in this LGIA, executed by each insurer or by an authorized representative of each insurer.
- 18.3.10** Notwithstanding the foregoing, each Party may self-insure to meet the minimum insurance requirements of Articles 18.3.2 through 18.3.8 to the extent it maintains a self-insurance program; provided that, such Party's senior unsecured debt or issuer rating is BBB-, or better, as rated by Standard & Poor's and that its self-insurance program meets the minimum insurance requirements of Articles 18.3.2 through 18.3.8. For any period of time that a Party's senior unsecured debt rating and issuer rating are both unrated by Standard & Poor's or are both rated at less than BBB- by Standard & Poor's, such Party shall comply with the insurance requirements applicable to it under Articles 18.3.2 through 18.3.9. In the event that a Party is permitted to self-insure pursuant to this Article 18.3.10, it shall notify the other Parties that it meets the requirements to self-insure and that its self-insurance program meets the minimum insurance requirements in a manner consistent with that specified in Article 18.3.9.
- 18.3.11** The Parties agree to report to each other in writing as soon as practical all accidents or occurrences resulting in injuries to any person, including death, and any property damage arising out of this LGIA.

## **ARTICLE 19. ASSIGNMENT**

- 19.1 Assignment.** This LGIA may be assigned by a Party only with the written consent of the other Parties; provided that a Party may assign this LGIA

without the consent of the other Parties to any Affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this LGIA; and provided further that the Interconnection Customer shall have the right to assign this LGIA, without the consent of the CAISO or Participating TO, for collateral security purposes to aid in providing financing for the Large Generating Facility, provided that the Interconnection Customer will promptly notify the CAISO and Participating TO of any such assignment. Any financing arrangement entered into by the Interconnection Customer pursuant to this Article will provide that prior to or upon the exercise of the secured party's, trustee's or mortgagee's assignment rights pursuant to said arrangement, the secured creditor, the trustee or mortgagee will notify the CAISO and Participating TO of the date and particulars of any such exercise of assignment right(s), including providing the CAISO and Participating TO with proof that it meets the requirements of Articles 11.5 and 18.3. Any attempted assignment that violates this Article is void and ineffective. Any assignment under this LGIA shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. Where required, consent to assignment will not be unreasonably withheld, conditioned or delayed.

## ARTICLE 20. SEVERABILITY

- 20.1 Severability.** If any provision in this LGIA is finally determined to be invalid, void or unenforceable by any court or other Governmental Authority having jurisdiction, such determination shall not invalidate, void or make unenforceable any other provision, agreement or covenant of this LGIA; provided that if the Interconnection Customer (or any third party, but only if such third party is not acting at the direction of the Participating TO or CAISO) seeks and obtains such a final determination with respect to any provision of the Alternate Option (Article 5.1.2), or the Negotiated Option (Article 5.1.4), then none of the provisions of Article 5.1.2 or 5.1.4 shall thereafter have any force or effect and the Parties' rights and obligations shall be governed solely by the Standard Option (Article 5.1.1).

## ARTICLE 21. COMPARABILITY

- 21.1 Comparability.** The Parties will comply with all applicable comparability and code of conduct laws, rules and regulations, as amended from time to time.

## ARTICLE 22. CONFIDENTIALITY

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

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

If requested by any Party, the other Parties shall provide in writing, the basis for asserting that the information referred to in this Article 22 warrants confidential treatment, and the requesting Party may disclose such writing to the appropriate Governmental Authority. Each Party shall be responsible for the costs associated with affording confidential treatment to its information.

**22.1.1 Term.** During the term of this LGIA, and for a period of three (3) years after the expiration or termination of this LGIA, except as otherwise provided in this Article 22, each Party shall hold in confidence and shall not disclose to any person Confidential Information.

**22.1.2 Scope.** Confidential Information shall not include information that the receiving Party can demonstrate: (1) is generally available to the public other than as a result of a disclosure by the receiving Party; (2) was in the lawful possession of the receiving Party on a non-confidential basis before receiving it from the disclosing Party; (3) was supplied to the receiving Party without restriction by a third party, who, to the knowledge of the receiving Party after due inquiry, was under no obligation to the disclosing Party to keep such information confidential; (4) was independently developed by the receiving Party without reference to Confidential Information of the disclosing Party; (5) is, or becomes, publicly known, through no wrongful act or omission of the receiving Party or Breach of this LGIA; or (6) is required, in accordance with Article 22.1.7 of this LGIA, Order of Disclosure, to be disclosed by any Governmental Authority or is otherwise required to be disclosed by law or subpoena, or is necessary in any legal proceeding establishing rights and obligations under this LGIA. Information designated as Confidential Information will no longer be deemed confidential if the Party that designated the information as confidential notifies the other Parties that it no longer is confidential.

**22.1.3 Release of Confidential Information.** No Party shall release or disclose Confidential Information to any other person, except to its employees, consultants, Affiliates (limited by the Standards of Conduct requirements set forth in Part 358 of FERC's Regulations, 18 C.F.R. 358), subcontractors, or to parties who may be or considering providing financing to or equity participation with the Interconnection Customer, or to potential purchasers or assignees of the Interconnection Customer, on a need-to-know basis in connection with this LGIA, unless such person has first been advised of the confidentiality provisions of this Article 22 and has agreed to comply with such provisions. Notwithstanding the foregoing, a Party providing Confidential Information to any person shall remain primarily responsible for any release of Confidential Information in contravention of this Article 22.

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

**22.1.5 No Warranties.** The mere fact that a Party has provided Confidential Information does not constitute a warranty or representation as to its accuracy or completeness. In addition, by supplying Confidential Information, no Party obligates itself to provide any particular information or Confidential Information to the other Parties nor to enter into any further agreements or proceed with any other relationship or joint venture.

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

**22.1.7 Order of Disclosure.** If a court or a Government Authority or entity with the right, power, and apparent authority to do so requests or requires any Party, by subpoena, oral deposition, interrogatories, requests for production of documents, administrative order, or otherwise, to disclose Confidential Information, that Party shall provide the other Parties with prompt notice of such request(s) or requirement(s) so that the other Parties may seek an appropriate protective order or waive compliance with the terms of this LGIA. Notwithstanding the absence of a protective order or waiver, the

Party may disclose such Confidential Information which, in the opinion of its counsel, the Party is legally compelled to disclose. Each Party will use Reasonable Efforts to obtain reliable assurance that confidential treatment will be accorded any Confidential Information so furnished.

**22.1.8 Termination of Agreement.** Upon termination of this LGIA for any reason, each Party shall, within ten (10) Calendar Days of receipt of a written request from another Party, use Reasonable Efforts to destroy, erase, or delete (with such destruction, erasure, and deletion certified in writing to the other Party) or return to the other Party, without retaining copies thereof, any and all written or electronic Confidential Information received from the other Party.

**22.1.9 Remedies.** The Parties agree that monetary damages would be inadequate to compensate a Party for another Party's Breach of its obligations under this Article 22. Each Party accordingly agrees that the other Parties shall be entitled to equitable relief, by way of injunction or otherwise, if the first Party Breaches or threatens to Breach its obligations under this Article 22, which equitable relief shall be granted without bond or proof of damages, and the receiving Party shall not plead in defense that there would be an adequate remedy at law. Such remedy shall not be deemed an exclusive remedy for the Breach of this Article 22, but shall be in addition to all other remedies available at law or in equity. The Parties further acknowledge and agree that the covenants contained herein are necessary for the protection of legitimate business interests and are reasonable in scope. No Party, however, shall be liable for indirect, incidental, or consequential or punitive damages of any nature or kind resulting from or arising in connection with this Article 22.

**22.1.10 Disclosure to FERC, its Staff, or a State.** Notwithstanding anything in this Article 22 to the contrary, and pursuant to 18 C.F.R. section 1b.20, if FERC or its staff, during the course of an investigation or otherwise, requests information from one of the Parties that is otherwise required to be maintained in confidence pursuant to this LGIA, the Party shall provide the requested information to FERC or its staff, within the time provided for in the request for information. In providing the information to FERC or its staff, the Party must, consistent with 18 C.F.R. section 388.112, request that the information be treated as confidential and non-public by FERC and its staff and that the information be withheld from public disclosure. Parties are prohibited from notifying the other Parties to this LGIA prior to the release of the Confidential Information to FERC or its staff. The Party shall notify the other Parties to the LGIA when it is notified by FERC or its staff that a request to release Confidential Information has been

received by FERC, at which time any of the Parties may respond before such information would be made public, pursuant to 18 C.F.R. Section 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.

- 22.1.11** Subject to the exception in Article 22.1.10, Confidential Information shall not be disclosed by the other Parties to any person not employed or retained by the other Parties, except to the extent disclosure is (i) required by law; (ii) reasonably deemed by the disclosing Party to be required to be disclosed in connection with a dispute between or among the Parties, or the defense of litigation or dispute; (iii) otherwise permitted by consent of the other Parties, such consent not to be unreasonably withheld; or (iv) necessary to fulfill its obligations under this LGIA or as a transmission service provider or a Balancing Authority including disclosing the Confidential Information to an RTO or ISO or to a regional or national reliability organization. The Party asserting confidentiality shall notify the other Parties in writing of the information it claims is confidential. Prior to any disclosures of another Party's Confidential Information under this subparagraph, or if any third party or Governmental Authority makes any request or demand for any of the information described in this subparagraph, the disclosing Party agrees to promptly notify the other Party in writing and agrees to assert confidentiality and cooperate with the other Party in seeking to protect the Confidential Information from public disclosure by confidentiality agreement, protective order or other reasonable measures.

## **ARTICLE 23. ENVIRONMENTAL RELEASES**

- 23.1** Each Party shall notify the other Parties, 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 Large Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Parties. The notifying Party shall: (i) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than twenty-four hours after such Party becomes aware of the occurrence; and (ii) promptly furnish to the other Parties copies of any publicly available reports filed with any Governmental Authorities addressing such events.

## **ARTICLE 24. INFORMATION REQUIREMENTS**

- 24.1 Information Acquisition.** The Participating TO and the Interconnection Customer shall submit specific information regarding the electrical

characteristics of their respective facilities to each other as described below and in accordance with Applicable Reliability Standards.

**24.2 Information Submission by Participating TO.** The initial information submission by the Participating TO shall occur no later than one hundred eighty (180) Calendar Days prior to Trial Operation and shall include the Participating TO's Transmission System information necessary to allow the Interconnection Customer to select equipment and meet any system protection and stability requirements, unless otherwise agreed to by the Participating TO and the Interconnection Customer. On a monthly basis the Participating TO shall provide the Interconnection Customer and the CAISO a status report on the construction and installation of the Participating TO's Interconnection Facilities and Network Upgrades, including, but not limited to, the following information: (1) progress to date; (2) a description of the activities since the last report; (3) a description of the action items for the next period; and (4) the delivery status of equipment ordered.

**24.3 Updated Information Submission by Interconnection Customer.** The updated information submission by the Interconnection Customer, including manufacturer information, shall occur no later than one hundred eighty (180) Calendar Days prior to the Trial Operation. The Interconnection Customer shall submit a completed copy of the Electric Generating Unit data requirements contained in Appendix 1 to the LGIP. It shall also include any additional information provided to the Participating TO and the CAISO for the Interconnection Studies. Information in this submission shall be the most current Electric Generating Unit design or expected performance data. Information submitted for stability models shall be compatible with the Participating TO and CAISO standard models. If there is no compatible model, the Interconnection Customer will work with a consultant mutually agreed to by the Parties to develop and supply a standard model and associated information.

If the Interconnection Customer's data is materially different from what was originally provided to the Participating TO and the CAISO for the Interconnection Studies, then the Participating TO and the CAISO will conduct appropriate studies pursuant to the LGIP to determine the impact on the Participating TO's Transmission System and affected portions of the CAISO Controlled Grid based on the actual data submitted pursuant to this Article 24.3. The Interconnection Customer shall not begin Trial Operation until such studies are completed and all other requirements of this LGIA are satisfied.

**24.4 Information Supplementation.** Prior to the Trial Operation date, the Parties shall supplement their information submissions described above in this Article 24 with any and all "as-built" Electric Generating Unit information or "as-tested" performance information that differs from the initial submissions or,

alternatively, written confirmation that no such differences exist. The Interconnection Customer shall conduct tests on the Electric Generating Unit as required by Good Utility Practice such as an open circuit "step voltage" test on the Electric Generating Unit to verify proper operation of the Electric Generating Unit's automatic voltage regulator.

Unless otherwise agreed, the test conditions shall include: (1) Electric Generating Unit at synchronous speed; (2) automatic voltage regulator on and in voltage control mode; and (3) a five percent (5 percent) change in Electric Generating Unit terminal voltage initiated by a change in the voltage regulators reference voltage. The Interconnection Customer shall provide validated test recordings showing the responses of Electric Generating Unit terminal and field voltages. In the event that direct recordings of these voltages is impractical, recordings of other voltages or currents that mirror the response of the Electric Generating Unit's terminal or field voltage are acceptable if information necessary to translate these alternate quantities to actual Electric Generating Unit terminal or field voltages is provided. Electric Generating Unit testing shall be conducted and results provided to the Participating TO and the CAISO for each individual Electric Generating Unit in a station.

Subsequent to the Commercial Operation Date, the Interconnection Customer shall provide the Participating TO and the CAISO any information changes due to equipment replacement, repair, or adjustment. The Participating TO shall provide the Interconnection Customer any information changes due to equipment replacement, repair or adjustment in the directly connected substation or any adjacent Participating TO-owned substation that may affect the Interconnection Customer's Interconnection Facilities equipment ratings, protection or operating requirements. The Parties shall provide such information pursuant to Article 5.19.

## **ARTICLE 25. INFORMATION ACCESS AND AUDIT RIGHTS**

**25.1 Information Access.** Each Party (the "disclosing Party") shall make available to the other Party information that is in the possession of the disclosing Party and is necessary in order for the other Party to: (i) verify the costs incurred by the disclosing Party for which the other Party is responsible under this LGIA; and (ii) carry out its obligations and responsibilities under this LGIA. The Parties shall not use such information for purposes other than those set forth in this Article 25.1 and to enforce their rights under this LGIA. Nothing in this Article 25 shall obligate the CAISO to make available to a Party any third party information in its possession or control if making such third party information available would violate a CAISO Tariff restriction on the use or disclosure of such third party information.

**25.2 Reporting of Non-Force Majeure Events.** Each Party (the “notifying Party”) shall notify the other Parties when the notifying Party becomes aware of its inability to comply with the provisions of this LGIA for a reason other than a Force Majeure event. The Parties agree to cooperate with each other and provide necessary information regarding such inability to comply, including the date, duration, reason for the inability to comply, and corrective actions taken or planned to be taken with respect to such inability to comply. Notwithstanding the foregoing, notification, cooperation or information provided under this Article shall not entitle the Party receiving such notification to allege a cause for anticipatory breach of this LGIA.

**25.3 Audit Rights.** Subject to the requirements of confidentiality under Article 22 of this LGIA, the Parties’ audit rights shall include audits of a Party’s costs pertaining to such Party’s performance or satisfaction of obligations owed to the other Party under this LGIA, calculation of invoiced amounts, the CAISO’s efforts to allocate responsibility for the provision of reactive support to the CAISO Controlled Grid, the CAISO’s efforts to allocate responsibility for interruption or reduction of generation on the CAISO Controlled Grid, and each such Party’s actions in an Emergency Condition.

**25.3.1** The Interconnection Customer and the Participating TO shall each have the right, during normal business hours, and upon prior reasonable notice to the other Party, to audit at its own expense the other Party’s accounts and records pertaining to either such Party’s performance or either such Party’s satisfaction of obligations owed to the other Party under this LGIA. Subject to Article 25.3.2, any audit authorized by this Article shall be performed at the offices where such accounts and records are maintained and shall be limited to those portions of such accounts and records that relate to each such Party’s performance and satisfaction of obligations under this LGIA. Each such Party shall keep such accounts and records for a period equivalent to the audit rights periods described in Article 25.4.

**25.3.2** Notwithstanding anything to the contrary in Article 25.3, each Party’s rights to audit the CAISO’s accounts and records shall be as set forth in Section 22.1 of the CAISO Tariff.

**25.4 Audit Rights Periods.**

**25.4.1 Audit Rights Period for Construction-Related Accounts and Records.** Accounts and records related to the design, engineering, procurement, and construction of Participating TO’s Interconnection Facilities, Network Upgrades, and Distribution Upgrades constructed by the Participating TO shall be subject to audit for a period of twenty-four months following the Participating TO’s issuance of a final invoice in accordance with Article 12.2. Accounts and records related to the

design, engineering, procurement, and construction of Participating TO's Interconnection Facilities and/or Stand Alone Network Upgrades constructed by the Interconnection Customer shall be subject to audit and verification by the Participating TO and the CAISO for a period of twenty-four months following the Interconnection Customer's issuance of a final invoice in accordance with Article 5.2(8).

#### **25.4.2 Audit Rights Period for All Other Accounts and Records.**

Accounts and records related to a Party's performance or satisfaction of all obligations under this LGIA other than those described in Article 25.4.1 shall be subject to audit as follows: (i) for an audit relating to cost obligations, the applicable audit rights period shall be twenty-four months after the auditing Party's receipt of an invoice giving rise to such cost obligations; and (ii) for an audit relating to all other obligations, the applicable audit rights period shall be twenty-four months after the event for which the audit is sought; provided that each Party's rights to audit the CAISO's accounts and records shall be as set forth in Section 22.1 of the CAISO Tariff.

**25.5 Audit Results.** If an audit by the Interconnection Customer or the Participating TO determines that an overpayment or an underpayment has occurred with respect to the other Party, a notice of such overpayment or underpayment shall be given to the other Party together with those records from the audit which supports such determination. The Party that is owed payment shall render an invoice to the other Party and such invoice shall be paid pursuant to Article 12 hereof.

**25.5.1** Notwithstanding anything to the contrary in Article 25.5, the Interconnection Customer's and Participating TO's rights to audit the CAISO's accounts and records shall be as set forth in Section 22.1 of the CAISO Tariff, and the CAISO's process for remedying an overpayment or underpayment shall be as set forth in the CAISO Tariff.

## **ARTICLE 26. SUBCONTRACTORS**

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

**26.2 Responsibility of Principal.** The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this LGIA. 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 the CAISO or Participating TO be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under Article 5 of this LGIA. Any applicable obligation imposed by this LGIA upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

**26.3 No Limitation by Insurance.** The obligations under this Article 26 will not be limited in any way by any limitation of subcontractor's insurance.

## ARTICLE 27. DISPUTES

All disputes arising out of or in connection with this LGIA whereby relief is sought by or from the CAISO shall be settled in accordance with the provisions of Article 13 of the CAISO Tariff, except that references to the CAISO Tariff in such Article 13 of the CAISO Tariff shall be read as references to this LGIA. Disputes arising out of or in connection with this LGIA not subject to provisions of Article 13 of the CAISO Tariff shall be resolved as follows:

**27.1 Submission.** In the event either Party has a dispute, or asserts a claim, that arises out of or in connection with this LGIA or its performance, such Party (the "disputing Party") shall provide the other Party with written notice of the dispute or claim ("Notice of Dispute"). Such dispute or claim shall be referred to a designated senior representative of each Party for resolution on an informal basis as promptly as practicable after receipt of the Notice of Dispute by the other Party. In the event the designated representatives are unable to resolve the claim or dispute through unassisted or assisted negotiations within thirty (30) Calendar Days of the other Party's receipt of the Notice of Dispute, such claim or dispute may, upon mutual agreement of the Parties, be submitted to arbitration and resolved in accordance with the arbitration procedures set forth below. In the event the Parties do not agree to submit such claim or dispute to arbitration, each Party may exercise whatever rights and remedies it may have in equity or at law consistent with the terms of this LGIA.

**27.2 External Arbitration Procedures.** Any arbitration initiated under this LGIA shall be conducted before a single neutral arbitrator appointed by the Parties. If the Parties fail to agree upon a single arbitrator within ten (10) Calendar Days of the submission of the dispute to arbitration, each Party shall choose one arbitrator who shall sit on a three-member arbitration panel. The two arbitrators so chosen shall within twenty (20) Calendar Days select a third arbitrator to chair the arbitration panel. In either case, the arbitrators shall be

knowledgeable in electric utility matters, including electric transmission and bulk power issues, and shall not have any current or past substantial business or financial relationships with any party to the arbitration (except prior arbitration). The arbitrator(s) shall provide each of the Parties an opportunity to be heard and, except as otherwise provided herein, shall conduct the arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("Arbitration Rules") and any applicable FERC regulations; provided, however, in the event of a conflict between the Arbitration Rules and the terms of this Article 27, the terms of this Article 27 shall prevail.

**27.3 Arbitration Decisions.** Unless otherwise agreed by the Parties, the arbitrator(s) shall render a decision within ninety (90) Calendar Days of appointment and shall notify the Parties in writing of such decision and the reasons therefor. The arbitrator(s) shall be authorized only to interpret and apply the provisions of this LGIA and shall have no power to modify or change any provision of this Agreement in any manner. The decision of the arbitrator(s) shall be final and binding upon the Parties, and judgment on the award may be entered in any court having jurisdiction. The decision of the arbitrator(s) may be appealed solely on the grounds that the conduct of the arbitrator(s), or the decision itself, violated the standards set forth in the Federal Arbitration Act or the Administrative Dispute Resolution Act. The final decision of the arbitrator must also be filed with FERC if it affects jurisdictional rates, terms and conditions of service, Interconnection Facilities, or Network Upgrades.

**27.4 Costs.** Each Party shall be responsible for its own costs incurred during the arbitration process and for the following costs, if applicable: (1) the cost of the arbitrator chosen by the Party to sit on the three member panel and one half of the cost of the third arbitrator chosen; or (2) one half the cost of the single arbitrator jointly chosen by the Parties.

## **ARTICLE 28. REPRESENTATIONS, WARRANTIES AND COVENANTS**

**28.1 General.** Each Party makes the following representations, warranties and covenants:

**28.1.1 Good Standing.** Such Party is duly organized, validly existing and in good standing under the laws of the state in which it is organized, formed, or incorporated, as applicable; that it is qualified to do business in the state or states in which the Large Generating Facility, Interconnection Facilities and Network Upgrades owned by such Party, as applicable, are located; and that it has the corporate power and authority to own its properties, to carry on its business as now being conducted and to enter into this LGIA and carry out

the transactions contemplated hereby and perform and carry out all covenants and obligations on its part to be performed under and pursuant to this LGIA.

- 28.1.2 Authority.** Such Party has the right, power and authority to enter into this LGIA, to become a Party hereto and to perform its obligations hereunder. This LGIA is a legal, valid and binding obligation of such Party, enforceable against such Party in accordance with its terms, except as the enforceability thereof may be limited by applicable bankruptcy, insolvency, reorganization or other similar laws affecting creditors' rights generally and by general equitable principles (regardless of whether enforceability is sought in a proceeding in equity or at law).
- 28.1.3 No Conflict.** The execution, delivery and performance of this LGIA does not violate or conflict with the organizational or formation documents, or bylaws or operating agreement, of such Party, or any judgment, license, permit, order, material agreement or instrument applicable to or binding upon such Party or any of its assets.
- 28.1.4 Consent and Approval.** Such Party has sought or obtained, or, in accordance with this LGIA will seek or obtain, each consent, approval, authorization, order, or acceptance by any Governmental Authority in connection with the execution, delivery and performance of this LGIA, and it will provide to any Governmental Authority notice of any actions under this LGIA that are required by Applicable Laws and Regulations.

## ARTICLE 29. [RESERVED]

## ARTICLE 30. MISCELLANEOUS

- 30.1 Binding Effect.** This LGIA and the rights and obligations hereof, shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.
- 30.2 Conflicts.** In the event of a conflict between the body of this LGIA and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this LGIA shall prevail and be deemed the final intent of the Parties.
- 30.3 Rules of Interpretation.** This LGIA, unless a clear contrary intention appears, shall be construed and interpreted as follows: (1) the singular number includes the plural number and vice versa; (2) reference to any

person includes such person's successors and assigns but, in the case of a Party, only if such successors and assigns are permitted by this LGIA, and reference to a person in a particular capacity excludes such person in any other capacity or individually; (3) reference to any agreement (including this LGIA), document, instrument or tariff means such agreement, document, instrument, or tariff as amended or modified and in effect from time to time in accordance with the terms thereof and, if applicable, the terms hereof; (4) reference to any Applicable Laws and Regulations means such Applicable Laws and Regulations as amended, modified, codified, or reenacted, in whole or in part, and in effect from time to time, including, if applicable, rules and regulations promulgated thereunder; (5) unless expressly stated otherwise, reference to any Article, Section or Appendix means such Article of this LGIA or such Appendix to this LGIA, or such Section to the LGIP or such Appendix to the LGIP, as the case may be; (6) "hereunder", "hereof", "herein", "hereto" and words of similar import shall be deemed references to this LGIA as a whole and not to any particular Article or other provision hereof or thereof; (7) "including" (and with correlative meaning "include") means including without limiting the generality of any description preceding such term; and (8) relative to the determination of any period of time, "from" means "from and including", "to" means "to but excluding" and "through" means "through and including".

- 30.4 Entire Agreement.** This LGIA, including all Appendices and Schedules attached hereto, 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 LGIA. 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 LGIA.
- 30.5 No Third Party Beneficiaries.** This LGIA 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.
- 30.6 Waiver.** The failure of a Party to this LGIA to insist, on any occasion, upon strict performance of any provision of this LGIA will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this LGIA 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 LGIA. Termination or Default of this LGIA for any reason by the Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal

rights to obtain an interconnection from the Participating TO. Any waiver of this LGIA shall, if requested, be provided in writing.

- 30.7 Headings.** The descriptive headings of the various Articles of this LGIA have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this LGIA.
- 30.8 Multiple Counterparts.** This LGIA may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.
- 30.9 Amendment.** The Parties may by mutual agreement amend this LGIA by a written instrument duly executed by all of the Parties. Such amendment shall become effective and a part of this LGIA upon satisfaction of all Applicable Laws and Regulations.
- 30.10 Modification by the Parties.** The Parties may by mutual agreement amend the Appendices to this LGIA by a written instrument duly executed by all of the Parties. Such amendment shall become effective and a part of this LGIA upon satisfaction of all Applicable Laws and Regulations.
- 30.11 Reservation of Rights.** The CAISO and Participating TO shall each have the right to make a unilateral filing with FERC to modify this LGIA pursuant to section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder with respect to the following Articles of this LGIA and with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation covered by these Articles:

Recitals, 1, 2.1, 2.2, 2.3, 2.4, 2.6, 3.1, 3.3, 4.1, 4.2, 4.3, 4.4, 5 preamble, 5.4, 5.7, 5.8, 5.9, 5.12, 5.13, 5.18, 5.19.1, 7.1, 7.2, 8, 9.1, 9.2, 9.3, 9.5, 9.6, 9.7, 9.8, 9.10, 10.3, 11.4, 12.1, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24.3, 24.4, 25.1, 25.2, 25.3 (excluding subparts), 25.4.2, 26, 28, 29, 30, Appendix D, Appendix F, Appendix G, and any other Article not reserved exclusively to the Participating TO or the CAISO below.

The Participating TO shall have the exclusive right to make a unilateral filing with FERC to modify this LGIA pursuant to section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder with respect to the following Articles of this LGIA and with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation covered by these Articles:

2.5, 5.1, 5.2, 5.3, 5.5, 5.6, 5.10, 5.11, 5.14, 5.15, 5.16, 5.17, 5.19 (excluding 5.19.1), 6, 7.3, 9.4, 9.9, 10.1, 10.2, 10.4, 10.5, 11.1, 11.2, 11.3, 11.5, 12.2, 12.3, 12.4, 24.1, 24.2, 25.3.1, 25.4.1, 25.5 (excluding

25.5.1), 27 (excluding preamble), Appendix A, Appendix B, Appendix C, and Appendix E.

The CAISO shall have the exclusive right to make a unilateral filing with FERC to modify this LGIA pursuant to section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder with respect to the following Articles of this LGIA and with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation covered by these Articles:

3.2, 4.5, 11.6, 25.3.2, 25.5.1, and 27 preamble.

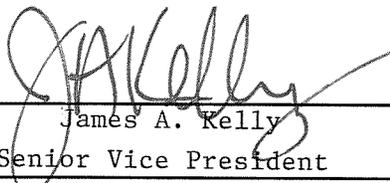
The Interconnection Customer, the CAISO, and the Participating TO shall have the right to make a unilateral filing with FERC to modify this LGIA pursuant to section 206 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder; provided that each Party shall have the right to protest any such filing by another Party and to participate fully in any proceeding before FERC in which such modifications may be considered. Nothing in this LGIA shall limit the rights of the Parties or of FERC under sections 205 or 206 of the Federal Power Act and FERC's rules and regulations thereunder, except to the extent that the Parties otherwise mutually agree as provided herein.

**30.12 No Partnership.** This LGIA 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.

**30.13 Joint and Several Obligations.** Except as otherwise provided in this LGIA, the obligations of the CAISO, the Participating TO, and the Interconnection Customer are several, and are neither joint nor joint and several.

**IN WITNESS WHEREOF**, the Parties have executed this LGIA in multiple originals, each of which shall constitute and be an original effective agreement among the Parties.

**Southern California Edison Company**

By:   
James A. Kelly  
Title: Senior Vice President  
Date: 7/30/2010

**California Independent System Operator Corporation**

By:   
KEITH E. CASEY, PH.D., VICE PRESIDENT  
Title: MARKET & INFRASTRUCTURE DEVELOPMENT  
Date: 7/22/10



**Solar Partners VIII, LLC**

By: BrightSource Energy Inc.,  
Its Managing Member

By:   
Title: VP- US PROJECT DEVELOPMENT  
Date: 7/19/2010

## **Appendices to LGIA**

- Appendix A Interconnection Facilities, Network Upgrades and Distribution Upgrades
- Appendix B Milestones
- Appendix C Interconnection Details
- Appendix D Security Arrangements Details
- Appendix E Commercial Operation Date
- Appendix F Addresses for Delivery of Notices and Billings
- Appendix G Reliability Management System Agreement
- Appendix H Interconnection Requirements for a Wind Generating Plant

## Appendix A To LGIA

### Interconnection Facilities, Network Upgrades and Distribution Upgrades

#### 1. Interconnection Facilities:

##### (a) Interconnection Customer's Interconnection Facilities: The Interconnection Customer shall

- (i) Install one 156/208/260 MVA, 115/13.8 kV main transformer or an alternate transformer as approved in advance and writing by the CAISO and Participating TO.
- (ii) Install one 115 kV generation tie-line approximately 2.67 mile long from the Ivanpah Solar Electric Generating System 3 ("Ivanpah 3 Project") facility to the last structure owned by the Interconnection Customer outside of and nearest to the property line boundary at Ivanpah Substation. The generation tie-line shall be equipped with optical ground wire ("OPGW") to provide the telecommunication path required for the line protection and one of the two telecommunication paths required for the Special Protection System ("SPS").
- (iii) Install all required CAISO-approved compliant metering at the Ivanpah 3 Project.
- (iv) Provide a metering cubicle for the Participating TO to install its retail metering equipment and related meters. Such cubicle must be placed at a location that would allow twenty-four hour access for the Participating TO's metering personnel.
- (v) Install the following line protection relays at the termination point of the Ivanpah 3 Project's 115 kV generation tie-line at the Interconnection Customer's 115 kV switchyard, as specified by the Participating TO:
  - One General Electric (GE) L90 current differential relay with dual dedicated digital communication channels to Ivanpah Substation.
  - One Schweitzer SEL 311L current differential relay with dual dedicated digital communication channels to Ivanpah Substation.
- (vi) Install the following SPS relays at the termination point of the Ivanpah 3 Project 115 kV generation tie-line at the Interconnection Customer's 115 kV switchyard, as specified by the Participating TO:
  - Two GE N60 relays (for the SPS) to trip the main generator breaker.
  - One SEL – 2407 satellite synchronized clock.
- (vii) Provide adequate space and power sources within the Interconnection Customer's facilities for the installation of the Participating TO's

telecommunications terminal equipment interfacing with the Interconnection Customer's 115 kV generation tie-line protection and SPS relays described in Section 1(a)(vii) above and the Participating TO's Remote Terminal Unit ("RTU") installed at the Ivanpah 3 Project's Generating Facility.

- (vii) Install disconnect facilities in accordance with Section 5.11 of the Participating TO's Interconnection Handbook to comply with the Participating TO's switching and tagging procedures.

**(b) Participating TO's Interconnection Facilities:**

**(i) Telecommunications:**

**A. Deed-To Telecommunications Facilities (as defined in Section 7 of this Appendix A):**

The Interconnection Customer shall:

- Engineer, design, construct and install the following items, except as otherwise specified in Section 1(b)(i)B below and in accordance with the Participating TO's list of approved suppliers; materials specifications; and engineering, design and construction guidelines and specifications (together, the "Participating TO's Specifications"):
  - Terminal equipment at the Ivanpah 3 Project Generating Facility to support the 115 kV generation tie-line protection and SPS relays.
  - Fiber optic cable from the nearest Interconnection Customer structure or underground conduit, or other structure or location, agreed to by the Parties, outside of the Ivanpah Substation fence to the Ivanpah 3 Project Generating Facility to provide the second telecommunications path required for the SPSs.
- Provide all engineering, design and construction drawings; bills of material; and all other documents required by the Participating TO ("Construction Documents") to verify compliance with the Participating TO's Specifications.

**B. Participating TO's Telecommunications Work:**

The Participating TO shall:

- Terminal Equipment at Ivanpah Substation:

Install terminal equipment at Ivanpah Substation to support the 115 kV generation tie-line protection and SPS.

- Terminal Equipment at Ivanpah 3 Project:
  - Review and approve all Construction Documents required from the Interconnection Customer to verify compliance with the Participating TO's Specifications for the terminal equipment at the Ivanpah 3 Project.
  - Inspect and test the terminal equipment at the Ivanpah 3 Project to verify compliance with the Participating TO's Specifications.
  
- Second Telecommunications Path from Ivanpah Substation to the Ivanpah 3 Project:
  - Review and approve all Construction Documents required from the Interconnection Customer to verify compliance with the Participating TO's Specifications for the fiber optic cable.
  - Splice and terminate the fiber optic cable.
  - Inspect and test the fiber optic cable to verify compliance with the Participating TO's Specifications.

Notwithstanding the fact that the terminal equipment at the Ivanpah 3 Project Generating Facility and the second telecommunications path (i.e. the fiber optic cable) will be located on the Interconnection Customer's side of the Point of Change of Ownership, such equipment and fiber optic cable will be owned by the Participating TO.

**(ii) Transmission Lines:**

**Ivanpah 3 Project – Ivanpah 115 kV Generation Tie-Line**

The Participating TO shall install the rack span of the Ivanpah 3 Project 115 kV generation tie-line from the last structure owned by the Interconnection Customer, outside of and closest to the property line boundary at Ivanpah Substation, to the station dead – end structure. (It is assumed that such last Interconnection Customer structure will be close enough to the Ivanpah Substation perimeter fence that only one span of conductors will be required to reach the station 115 kV switchyard dead-end structure.)

**(iii) Substations:**

**Ivanpah Substation – Line Termination**

The Participating TO shall terminate the Ivanpah 3 Project 115 kV generation tie-line into a position at Ivanpah Substation.

**(iv) Power System Control:****RTU - Generating Facility**

The Participating TO shall install one RTU at the Ivanpah 3 Project to monitor the typical generation elements such as MW, MVAR, terminal voltage and circuit breaker status at each Electric Generating Unit and the plant auxiliary load and transmit the information to the Lugo Substation remote port server. Notwithstanding the fact that the RTU equipment at the Ivanpah 3 Project Generating Facility will be located on the Interconnection Customer's side of the Point of Change of Ownership, the RTU will be owned, operated, and maintained by the Participating TO.

**2. Network Upgrades:**

**(a) Stand Alone Network Upgrades:** None

**(b) Other Network Upgrades:**

**(i) Participating TO's Reliability Network Upgrades:** None

**(ii) Participating TO's Delivery Network Upgrades:**

**A. Substations:****(i). Ivanpah Substation**

Install two 220/115kV transformer banks with associated 220kV and 115kV bank positions and one 220kV transmission line (T/L) position to terminate the new Eldorado 220kV T/L.

The Ivanpah Substation expansion to include 220kV facilities requires the installation of the following equipment:

- a. East and west 220kV buses covering four positions
- b. One double breaker line position to terminate the Eldorado 220kV T/L
- c. Two double breaker bank positions
- d. Two 280MVA 220/115kV transformer bank
- e. Two double breaker 115kV bank positions
- f. One double breaker line position to terminate the Ivanpah 3 115kV gen tie line

**NOTE:**

The substation is presently being developed for an ultimate configuration that would include four 280MVA transformer banks, eight 220kV positions arranged in a "Breaker and a Half" configuration (Three breakers for two elements) and fourteen 115kV positions arranged in a "Double Bus – Double Breaker" plus two 115kV bus sectionalizing positions.

In addition, the substation will have enough space to install two 220kV and four 115kV capacitor banks in case the system would require voltage regulation equipment in the future.

The ultimate configuration requires a fenced area of 885 Ft. by 850 Ft. and two 885 Ft. by 400 Ft. areas on each side of the station, for a total area of 1650 Ft. by 885 Ft.

**(ii). Eldorado Substation**

Extend the Eldorado 220kV buses two positions to the west and install one 220kV double breaker line position to terminate the new Ivanpah 220kV T/L.

Remove Eldorado 220/115kV transformer bank and related circuit breaker and associated equipment.

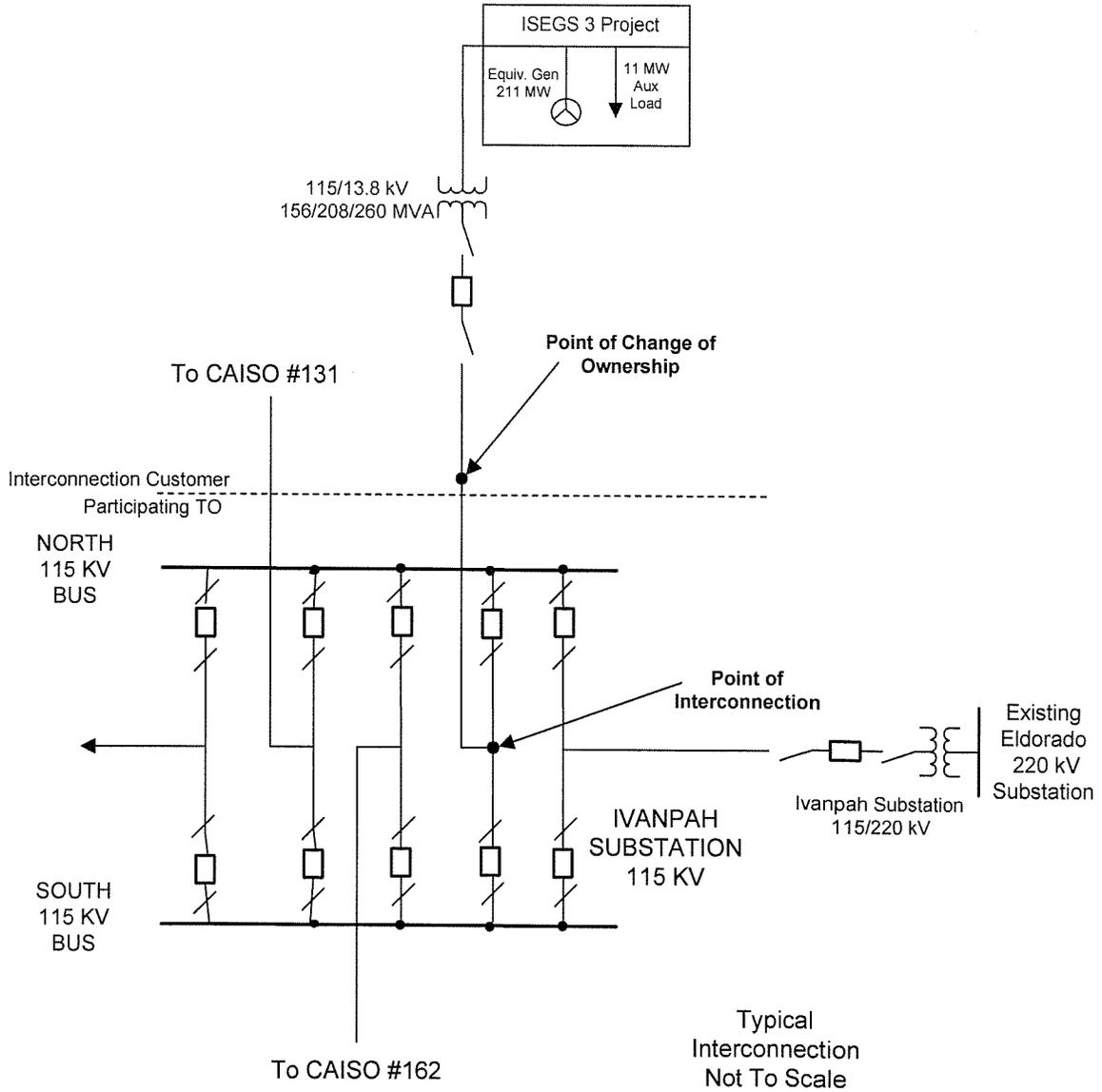
**3. Distribution Upgrades:** None.

**4. Point of Change of Ownership:**

The Point of Change of Ownership is the north facing insulator, which is owned by the Participating TO, attached to the dead-end structure of the Ivanpah 3 Project 115 kV generation tie-line located outside of the property line boundary at the Ivanpah Substation perimeter fence. The Interconnection Customer owns the dead-end structure, the south facing insulators and conductors from the dead-end structure to the Interconnection Customer's facilities, and the jumpers between the Participating TO's conductor and the Interconnection Customer's conductor.

**5. Point of Interconnection:** Ivanpah 3 Project's Point of Interconnection with the CAISO Controlled Grid is at the Participating TO's Ivanpah Substation 115 kV bus.

**6. One-Line Diagram of Interconnection to Ivanpah Substation:**



- 7. Additional Definitions:** For the purposes of these Appendices, the following terms, when used with initial capitalization, whether in the singular or the plural, shall have the meanings specified below:
- (a) Abandoned Plant Approval: A FERC final order, not subject to rehearing or appeal, granting the Participating TO's request for a declaratory order that the Participating TO can recover 100% of its prudently incurred costs for the EITP if such project is abandoned due to circumstances outside of the Participating TO's control.
  - (b) Accounting Practice: Generally accepted accounting principles and practices applicable to electric utility operations.
  - (c) Capital Additions: Any modifications to the Participating TO's Interconnection Facilities in accordance with Article 5.19 of the LGIA. Such modifications may be any Units of Property which are added to the Participating TO's Interconnection Facilities; the enlargement, modification or betterment of any Units of Property constituting a part of the Participating TO's Interconnection Facilities; or the replacement of any Units of Property constituting a part of the Participating TO's Interconnection Facilities, irrespective of whether such replacement constitutes an enlargement, modification or betterment of that which it replaces; the costs of which additions, enlargements, modifications, betterments or replacements in accordance with Accounting Practice would be capitalized and have not previously been included in the Interconnection Facilities Cost. If Capital Additions are required in order to benefit the Participating TO, or because of damage caused by negligence or willful misconduct of the Participating TO, then the Interconnection Customer will not bear cost responsibility for such Capital Additions, and no adjustment will be made to the Interconnection Facilities Cost, and no Capital Additions Cost or One-Time Cost will be charged to the Interconnection Customer for such Capital Additions.
  - (d) CPUC: The California Public Utilities Commission, or its regulatory successor.
  - (e) Credit Support: Guarantee, letter of credit, surety bond, or other security meeting the requirements of Article 11.5 of the LGIA.
  - (f) Customer-Financed Monthly Rate: The rate most recently adopted by the CPUC for application to the Participating TO's retail electric customers for added facilities, which does not compensate the Participating TO for replacement of added facilities. The currently effective Customer-Financed Monthly Rate is as provided in Section 15 of this Appendix A.

- (g) Deed-To Telecommunications Facilities: The Participating TO's Interconnection Facilities, as specified in Section 1(b)(i)A of this Appendix A constructed by the Interconnection Customer and owned by the Participating TO following transfer of ownership.
- (h) Deed-To Telecommunications Facilities Cost: All costs associated with the design, engineering, procurement, construction and installation of the Deed-To Telecommunications Facilities. The Deed-To Telecommunications Facilities Cost is provided in Section 14 of this Appendix A.
- (i) Delivery Network Upgrades Cost: All costs, excluding One-Time Cost, determined by the Participating TO to be associated with the design, engineering, procurement, construction and installation of the Participating TO's Delivery Network Upgrades.
- (j) Delivery Network Upgrades Payment: The sum of the Delivery Network Upgrades Cost and associated One-Time Cost. The Delivery Network Upgrades Payment is provided in Section 16 of this Appendix A.
- (k) Eldorado – Ivanpah Transmission Project (EITP): The Participating TO's generation interconnection master plan to connect up to 1,400 MW of renewable generation located near the southern California-Nevada border to the CAISO Controlled Grid. The main project components consist of the following: construction of a new 220/115 kV Ivanpah Substation; replacement of a portion of an existing 115 kV line with an approximately thirty-six mile, double-circuit 220 kV transmission line from the new Ivanpah Substation to the Participating TO's Eldorado Substation near Boulder City, Nevada; upgrade of Eldorado Substation to support the connection of the new transmission lines; and construction of two separate telecommunication pathways and communication equipment to connect the EITP to the Participating TO's existing telecommunications system.
- (l) Interconnection Facilities Charge: The monthly charge to the Interconnection Customer to recover the revenue requirements for the Participating TO's Interconnection Facilities, calculated as the product of the Customer-Financed Monthly Rate and the Interconnection Facilities Cost. The Interconnection Facilities Charge is provided in Section 15 of this Appendix A.
- (m) Interconnection Facilities Completion Date: The date upon which the construction of the Participating TO's Interconnection Facilities is complete and such facilities are successfully tested and ready for service.
- (n) Interconnection Facilities Cost: All costs, excluding One-Time Cost, determined by the Participating TO to be associated with the design, engineering, procurement, construction and installation of the Participating

TO's Interconnection Facilities. The Interconnection Facilities Cost is provided in Section 14 of this Appendix A.

- (o) Interconnection Facilities Payment: The sum of the Interconnection Facilities Cost, excluding the Deed-To Telecommunication Facilities Cost, and associated One-Time Cost. The Interconnection Facilities Payment is provided in Section 16 of this Appendix A.
- (p) ITCC: The ITCC is equal to the estimated tax liability described in Article 5.17.4 of the LGIA, and is the Income Tax Component of Contribution specified in the Preliminary Statement, Part M of the Participating TO's tariff on file with the CPUC, applicable to the Interconnection Facilities Cost. An estimate of the ITCC applicable to the Interconnection Facilities Cost is described in Section 10 of this Appendix A.
- (q) One-Time Cost: All costs determined by the Participating TO to be associated with the installation of the Participating TO's Interconnection Facilities, Delivery Network Upgrades Reliability Network Upgrades or Capital Additions which are not capitalized.
- (r) Reliability Network Upgrades Cost: All costs, excluding One-Time Cost, determined by the Participating TO to be associated with the design, engineering, procurement, construction and installation of the Participating TO's Reliability Network Upgrades.
- (s) Reliability Network Upgrades Payment: The sum of the Reliability Network Upgrades Cost and associated One-Time Cost. The Reliability Network Upgrades Payment is provided in Section 16 of this Appendix A.
- (t) Removal Cost: The cost the Participating TO incurs for the removal of the Participating TO's Interconnection Facilities, which is calculated as the amount, if positive, of the costs of removal minus the salvage value of the Participating TO's Interconnection Facilities.
- (u) Special Protection System ("SPS"): A system that reduces or trips generation under contingency outages to maintain system stability or to limit overloads on system facilities.
- (v) Units of Property: As described in FERC's "List of Units of Property for Use in Connection with Uniform System of Accounts Prescribed for Public Utilities and Licensees" in effect as of the date of this LGIA, and as such list may be amended from time to time.

**8. Transmission Credits:** No transmission credits are applicable since this LGIA assumes that the Participating TO will up-front finance the EITP components that

are required and are triggered by the Ivanpah 3 Project as well as other projects listed at Queue Positions 131 and 162, respectively, in the CAISO Controlled Grid Generation Queue which are identified in this document as CAISO No.131 and 162.

- 9. Security Amount for the Participating TO's Interconnection Facilities and Network Upgrades:** Pursuant to Article 11.5 and Appendix B of the LGIA, the Interconnection Customer shall provide Credit Support in the amount of \$1,119,000 to cover the costs for constructing, procuring and installing the Participating TO's Interconnection Facilities, excluding the Deed-To Telecommunications Facilities.

If the Participating TO does not receive Abandoned Plant Approval, the Interconnection Customer shall provide additional Credit Support for the costs of constructing, procuring and installing the Network Upgrades identified in Section 2 and Section 17 of this Appendix A, in an amount to be reflected in an amendment to this LGIA. The disposition of any released Credit Support shall be directed by the Interconnection Customer.

- 10. Security Amount for Estimated Tax Liability:** Pursuant to Article 5.17.4 of the LGIA, the Interconnection Customer's estimated tax liability is as follows:

$(\text{Current Tax Rate} \times (\text{Gross Income Amount} - \text{Present Value of Tax Depreciation})) / (1 - \text{Current Tax Rate}) = 35\%$

Estimated tax liability = 35% \* Interconnection Facilities Cost = 35% \* \$1,119,000 = \$391,650

Based upon the estimated tax liability, the Interconnection Customer shall provide the Participating TO cash or a letter of credit in the amount of \$391,650, pursuant to Article 5.17.3 and Appendix B of the LGIA.

The amount specified herein shall be revised to include the security amount for the Deed-To Telecommunications Facilities pursuant to an amendment to the LGIA subject to FERC's acceptance or approval.

- 11. Removal of the Participating TO's Interconnection Facilities:** Following termination of the LGIA, the Participating TO will remove the Participating TO's Interconnection Facilities from service to the Interconnection Customer pursuant to Article 2.5 of the LGIA. On or before the date one year following termination of the LGIA, the Participating TO shall notify the Interconnection Customer whether the Participating TO intends to physically remove the Participating TO's Interconnection Facilities, or any part thereof. If the Participating TO intends to physically remove the Participating TO's Interconnection Facilities or any part thereof, then the Participating TO shall physically remove such facilities within two years from the date of notification of intent, and the Interconnection

Customer shall pay the Removal Cost. If the Participating TO does not intend to physically remove the Participating TO's Interconnection Facilities, or any part thereof, then the Interconnection Customer shall have no obligation to pay such Removal Cost.

## 12. Charges:

- (a) The Interconnection Customer shall pay to the Participating TO the following charges in accordance with the LGIA: (i) Delivery Network Upgrades Payment; (ii) Interconnection Facilities Payment; (iii) Reliability Network Upgrades Payment; (iv) Interconnection Facilities Charge; (v) payments for any Capital Additions; (vi) any reimbursable FERC fees pursuant to Section 13(f) of this Appendix A; (vii) Removal Cost pursuant to Article 2.4.3 of the LGIA and Section 11 of this Appendix A; (viii) termination charges pursuant to Article 2.4 of the LGIA, provided that such charges shall not be applicable to the extent the costs associated with termination of the LGIA are subject to Abandoned Plant Approval received by the Participating TO; and (ix) disconnection costs pursuant to Article 2.5 of the LGIA.
- (b) The Delivery Network Upgrades Cost, Interconnection Facilities Cost, Reliability Network Upgrades Cost, associated One-Time Cost, and Removal Cost shall be compiled in accordance with Accounting Practice.
- (c) If, during the term of the LGIA, the Participating TO executes an agreement to provide service to another entity (other than retail load) which contributes to the need for the Participating TO's Interconnection Facilities, the charges due hereunder shall be adjusted as appropriate to reflect such service based on the Participating TO's cost allocation principles in effect at such time and shall be subject to FERC's approval.

The following Sections 12(d) through 12(h) shall be applicable only in the event that the Ivanpah 3 Project precedes CAISO No. 131 and CAISO No. 162.

- (d) The network upgrades and distribution upgrades specified in Section 2 and Section 17 of this Appendix A comprise part of the EITP. The Participating TO will up-front finance the network components of EITP, including those Network Upgrades specified in Section 2 and Section 17 of this Appendix A, contingent upon satisfactory receipt, as determined by the Participating TO, of the following:
  - (i) Abandoned Plant Approval.
  - (ii) Continued achievement of development milestones by the Interconnection Customer, as described herein and in Table 1 below:
    - A. At the time the Participating TO receives Abandoned Plant Approval, the Interconnection Customer must have secured Site Control, as defined in

the CAISO Tariff Appendix A Master Definitions Supplement, for the Ivanpah 3 Project.

- B. Prior to the Participating TO commencing final engineering and design of the Network Upgrades specified in Section 2 and Section 17 of this Appendix A and the applicable Participating TO's Interconnection Facilities, the Interconnection Customer must have secured all required permits for the Ivanpah 3 Project.
- C. Prior to the Participating TO mobilizing its procurement and construction contractor and commencing construction of the Network Upgrades specified in Section 2 and Section 17 of this Appendix A and the Participating TO's Interconnection Facilities, Interconnection Customer must have secured development financing for the Ivanpah 3 Project.
- D. Prior to Participating TO constructing facilities to provide 115 kV backfeed power, Interconnection Customer must have constructed its generation tie-line to the Ivanpah Substation.

#### **Participating TO Transmission Development and Interconnection Customer Generation Development Milestones and Decision Points**

The Parties acknowledge that the Interconnection Customer's original requested In-Service Date of 2012 is not feasible due to the transmission upgrades necessary to accommodate the full amount of electrical output listed in the Interconnection Request. The Interconnection Customer has requested that the Participating TO complete the necessary upgrades to support the Interconnection Customer's revised in-service date of the Ivanpah 3 Project to third quarter 2012. The Participating TO has filed an application for a Certificate of Public Convenience and Necessity ("CPCN") with the CPUC for the EITP. The Participating TO's EITP schedule published in its CPCN application currently shows an in-service date of mid 2013. The Parties, however, acknowledge that if certain key regulatory approvals are obtained earlier than the dates in the 2013 schedule, and the Participating TO elects to perform some of its engineering and permitting tasks in parallel, it is feasible for EITP to achieve a third quarter 2012 in-service date. The Participating TO has agreed to use Reasonable Efforts to achieve the Interconnection Customer's requested In-Service Date. The Participating TO has also agreed to up-front finance the Network Upgrades specified in Section 2 and Section 17 of this Appendix A under the terms specified in this Section 12(d) and move forward on the faster schedule subject to the Interconnection Customer also moving forward on its schedule and achieving certain milestones as identified in Table 1 below. The Parties have agreed that it is prudent to remain in synch with respect to the schedule of EITP and the Ivanpah 3 Project so that neither the Participating TO nor the Interconnection Customer is way ahead or lags the other. The Parties agree to use Reasonable Efforts to achieve a third quarter 2012 in-service date for EITP to support the Interconnection Customer's planned initial synchronization on that same date. Each Party will make Reasonable Efforts to support the other Party's key regulatory processes and filings to support the desired third quarter 2012 EITP in-service date and Ivanpah 3 Project's Initial Synchronization Date.

**Table 1: Participating TO and Interconnection Customer Milestones and Decision Points**

<b>Group 1 Milestones and Decision Point #1</b>		
<b>Participating TO Milestone</b>		<b>Interconnection Customer Milestone</b>
Participating TO executes LGIA with Interconnection Customer and CAISO for Ivanpah 3 Project		Interconnection Customer secures final Site Control
Participating TO receives Abandoned Plant Approval <sup>(1)</sup>		Interconnection Customer executes LGIA with Participating TO and CAISO for Ivanpah 3 Project
<p><b>DECISION POINT #1:</b> Following completion of all Group 1 milestones by the Participating TO, the Interconnection Customer must demonstrate that it has completed all of its Group 1 milestones. Parties exercise options as outlined in Table 2</p>		
<b>Group 2 Milestones and Decision Point #2</b>		
<b>Participating TO Milestone</b>		<b>Interconnection Customer Milestone</b>
Participating TO receives draft environmental impact report/environmental impact statement from the CPUC for EITP <sup>(1)</sup>		Interconnection Customer secures CEC affirmative decision and Bureau of Land Management (BLM) Record of Decision (ROD) granting right-of-way (ROW) for Ivanpah 3 Project Generating Facility and common area <sup>(2)</sup> at a minimum <sup>(3)</sup>
<p><b>DECISION POINT #2:</b> Following completion of all Group 2 milestones by the Participating TO, the Interconnection Customer must demonstrate that it has completed all of its Group 2 milestones. Parties exercise options as outlined in Table 2</p>		

<b>Group 3 Milestones and Decision Point #3</b>		<b>Participating TO Milestone</b>	<b>Interconnection Customer Milestone</b>
	Participating TO commences final design and engineering of transmission line and substation		Interconnection Customer selects Engineering Procurement Construction (EPC) contractor
	Participating TO receives all required licenses/permits, including CPCN from CPUC, certificate from Nevada Public Utilities Commission, and ROD/ROW decision from BLM <sup>(1)</sup>		Interconnection Customer secures financing to construct Ivanpah 3 Project
	Participating TO begins to procure long-lead time items <sup>(4)</sup>		
DECISION POINT #3: Following completion of all Group 3 milestones by the Participating TO, the Interconnection Customer must demonstrate that it has completed all of its Group 3 milestones. Parties exercise options as outlined in Table 2			
<b>Group 4 Milestones and Decision Point #4</b>		<b>Participating TO Milestone</b>	<b>Interconnection Customer Milestone</b>
	Participating TO selects and mobilizes procurement and construction contractor <sup>(5)</sup>		Interconnection Customer mobilizes EPC contractor <sup>(6)</sup>
	Participating TO completes 33kV construction power service connection to serve construction power		Interconnection Customer commences construction of Ivanpah 3 Project, including site prep/grading for Ivanpah Substation site
DECISION POINT #4: Following completion of all Group 4 milestones by the Participating TO, the Interconnection Customer must demonstrate that it has completed all of its Group 4 milestones within sixty (60) Calendar Days of the Participating TO notifying the Interconnection Customer of such completion. Parties exercise options as outlined in Table 2			

<b>Group 5 Milestones and Decision Point #5</b>	
<b>Participating TO Milestone</b>	<b>Interconnection Customer Milestone</b>
Participating TO commences construction of EITP transmission line facilities and telecommunication facilities	Interconnection Customer commences construction of power tower(s), heliostat field, boiler and power block for Ivanpah 3 Project
Participating TO commences construction of Ivanpah Substation <sup>(7)</sup>	
DECISION POINT #5: Following completion of all Group 5 milestones by the Participating TO, the Interconnection Customer must demonstrate that it has completed all of its Group 5 milestones within thirty (30) Calendar Days of the Participating TO notifying the Interconnection Customer of such completion. Parties exercise options as outlined in Table 2	
<b>Group 6 Milestones and Decision Point #6</b>	
<b>Participating TO Milestone</b>	<b>Interconnection Customer Milestone</b>
Participating TO energizes EITP upgrades, enabling Commercial Operation of Ivanpah 3 Project	Initial parallel connection of Ivanpah 3 Project synchronized to Participating TO grid for testing
	Commercial Operation of Ivanpah 3 Project
DECISION POINT #6: Following completion of all Group 6 milestones by the Participating TO, the Interconnection Customer must demonstrate that it has completed all of its Group 6 milestones within sixty (60) Calendar Days of the Participating TO notifying the Interconnection Customer of such completion. Parties exercise options as outlined in Table 2	

Footnotes:

- (1) Outside the control of the Participating TO
- (2) The common areas include the following items: the administrative/maintenance building complex; the main fire, water and raw water pumps; and miscellaneous yard lighting in such common area
- (3) Outside the control of the Interconnection Customer
- (4) May occur prior to Decision Point #1 for certain items
- (5) Linked to item outside the control of the Participating TO
- (6) Linked to item outside the control of the Interconnection Customer
- (7) Subject to prior completion of grading for Ivanpah Substation by the Interconnection Customer

**Table 2: Actions by the Parties at each Decision Point:**

*Table 2A- Participating TO General Option: At each Decision Point, the Participating TO has the following options:*

<p>At each Decision Point as outlined in Table 1 above, if the Interconnection Customer is current in meeting its milestones (as milestones may be adjusted due to the Interconnection Customer exercising option 2 in Table 2B below), the Participating TO shall confirm its commitment to finance Network Upgrades identified in Section 2 and Section 17 of this Appendix A.</p> <p>If the Interconnection Customer is <u>not</u> current in meeting its milestones as outlined in Table 1 (as milestones may be adjusted due to the Interconnection Customer exercising option 2 in Table 2B below), the Participating TO has the following additional options:</p> <ol style="list-style-type: none"> <li>1) Confirm its commitment to finance Network Upgrades (but have no obligation to do so)</li> <li>2) Discontinue its commitment to finance Network Upgrades, in which case Network Upgrades may then be financed by the Interconnection Customer subject to Section 12 of Appendix A.</li> <li>3) Terminate the LGIA, subject to termination provisions in the LGIA</li> <li>4) Other actions mutually agreeable to both parties</li> </ol>
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*Table 2B – Interconnection Customer General Option: At each Decision Point, the Interconnection Customer has the following options:*

<p>At each Decision Point as outlined in Table 1 above, if the Participating TO is current in meeting its milestones, the Interconnection Customer shall confirm its commitment to develop its Generating Facility.</p> <p>If the Participating TO is <u>not</u> current in meeting its milestones as outlined in Table 1, the Interconnection Customer has the following additional options:</p> <ol style="list-style-type: none"> <li>1) Continue to develop its Generation Facility (but have no obligation to do so)</li> <li>2) Adjust its development milestones, day-for-day, as appropriate, to the Participating TO's new timetable(s)</li> <li>3) Terminate the LGIA, subject to termination provisions in the LGIA</li> <li>4) Other actions mutually agreeable to both parties</li> </ol>
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Upon reaching each Decision Point described in Table 1 above, the parties have the ability to exercise the options described in Table 2. At such time, a window of fifteen (15) Calendar Days shall open and each Party shall have fifteen (15) Calendar Days to notify the other Party of what, if any, option it has elected to take. The parties may extend this window by mutual agreement and may exercise option 4 as well. If a Party does not exercise any option during the fifteen (15) Calendar Day window then it shall be deemed to have elected option 1.

The termination provisions provided in option 3 of Table 2A and Table 2B above are an addition to, and not a replacement for, the termination provisions specified in Article 2.3 of this LGIA.

In case of a conflict in terms contained in this Section 12(d) and the terms in the CAISO Tariff or the LGIA Articles, the terms of the CAISO Tariff and the LGIA Articles, shall apply.

- (e) In the event that the Participating TO does not receive Abandoned Plant Approval, this LGIA shall be amended such that the Interconnection Customer shall be responsible for the costs of the Network Upgrades, subject to FERC's acceptance or approval.
- (f) The determination of whether the Interconnection Customer has met its milestones outlined in Table 1 under Section 12(d) above shall be at the sole discretion of the Participating TO. The determination of whether the Participating TO has met its milestones outlined in Table 1 under Section 12(d) above shall be at the sole discretion of the Interconnection Customer. If there is a dispute as to whether the Interconnection Customer or Participating TO has met a milestone required in Table 1 under Section 12(d) above, such dispute shall be resolved pursuant to Article 27 of the LGIA.
- (g) If the Interconnection Customer does not meet any one of the milestones specified in Table 1 under Section 12(d) above (as milestones may be adjusted due to the Interconnection Customer exercising option 2 in Table 2B above), this failure shall be considered a Breach of this LGIA, subject to the Default and Right to Terminate provisions under Article 17 of this LGIA. The Participating TO shall have the option either to stop work on the EITP until the Breach has been cured or to amend this LGIA to require the Interconnection Customer to begin up-front financing the cost of the Network Upgrades if such Breach has not been cured by the Interconnection Customer.
- (h) Each Party shall provide the other Party a monthly status report, including all supporting documentation, to verify its progress on the milestones outlined in Table 1 under Section 12(d) above.

### 13. Supplemental Billing and Payment Provisions:

- (a) Pursuant to Article 12.1 of the LGIA, the Participating TO shall submit to the Interconnection Customer invoices due for the preceding month for the Delivery Network Upgrades Payment, Interconnection Facilities Payment, and Reliability Network Upgrades Payment.
- (b) Pursuant to Article 10.5 of the LGIA, commencing on or following the Interconnection Facilities Completion Date, each month the Participating TO will render bills to the Interconnection Customer for the Interconnection Facilities Charge. The Interconnection Facilities Charge payments shall initially be based on the estimated Interconnection Facilities Cost as specified in Section 14 of this Appendix A. The Interconnection Facilities Charge for the first and last month of service hereunder shall be pro-rated based on the number of Calendar Days in which service was provided during said months.
- (c) In accordance with Article 5.19.3 of the LGIA, the Participating TO shall submit to the Interconnection Customer invoices due for the preceding month for the payments due for Capital Additions, if any.
  - (i) For Capital Additions that are the cost responsibility of the Interconnection Customer, prior to commencing work, the Participating TO will provide at least sixty (60) Calendar Days advance written notification to the Interconnection Customer, except that, at the Participating TO's sole discretion, the Participating TO may commence the work on the Capital Additions with either shorter advance written notification or written notification after the work has commenced if the Participating TO determines that the Capital Additions are required in accordance with safety or regulatory requirements or to preserve system integrity or reliability. The written notification will include the estimated cost of the Capital Additions, and the amount of and due date for the security, if any, required to be paid by the Interconnection Customer sufficient to cover the costs for constructing, procuring and installing the Capital Additions consistent with the applicable terms of Article 11.5 of the LGIA.
  - (ii) Except as provided in Section 7(c), if certain Participating TO's Interconnection Facilities are removed to accommodate Capital Additions and such removal results in a change in the Interconnection Facilities Cost, the Interconnection Facilities Charge shall be adjusted as of the in-service date of such Capital Additions to reflect the change in the Interconnection Facilities Cost.
  - (iii) Except as provided in Section 7(c), if Capital Additions result in an increase in the Interconnection Facilities Cost, then the Interconnection Facilities Charge shall be adjusted as of the in-service date of such Capital Additions to reflect the change in such costs.

- (d) As soon as reasonably practicable, but within twelve (12) months after the in-service date of any Capital Additions, the Participating TO shall provide an invoice of the final cost of the construction of the Capital Additions to the Interconnection Customer, and shall set forth such costs in sufficient detail to enable the Interconnection Customer to compare the actual costs with the estimates and to ascertain deviations, if any, from the cost estimates. The Participating TO shall refund to the Interconnection Customer any amount by which the payment made by the Interconnection Customer for estimated costs of the Capital Additions exceeds the actual costs of construction within thirty (30) Calendar Days of the issuance of such final construction invoice; or, in the event the actual costs of construction exceed the Interconnection Customer's payment made for the estimated costs of the Capital Additions, then the Interconnection Customer shall pay to the Participating TO any amount by which the actual costs of construction exceed the payment made by the Interconnection Customer for estimated costs within thirty (30) Calendar Days of the issuance of such final construction invoice.
- (e) If, in accordance with the removal of the Participating TO's Interconnection Facilities specified in Section 11 above, the Participating TO decides to physically remove the Participating TO's Interconnection Facilities, or any part thereof, the Participating TO shall render a bill to the Interconnection Customer for the Removal Cost. The Interconnection Customer shall pay the Removal Cost in accordance with Article 2.4.3 of the LGIA. Such billing shall initially be based on the Participating TO's estimate of the Removal Cost. Within twelve (12) months following the removal of the Participating TO's Interconnection Facilities, or any part thereof, the Participating TO shall determine the actual Removal Cost and provide the Interconnection Customer with a final invoice. The Participating TO shall refund to the Interconnection Customer any amount by which the payment by the Interconnection Customer for the estimated Removal Cost exceeds the actual Removal Cost within thirty (30) Calendar Days of the issuance of such final invoice; or, in the event the actual Removal Cost exceeds the Interconnection Customer's payment for the estimated Removal Cost, then the Interconnection Customer shall pay to the Participating TO any amount by which the actual Removal Cost exceeds the payment by the Interconnection Customer for the estimated Removal Cost within thirty (30) Calendar Days of the issuance of such final invoice.
- (f) The Interconnection Customer shall reimburse the Participating TO for all fees and charges related to the FERC fees and annual charges provided in Sections 381 and 382 of the FERC's regulations (18 C.F.R. § 381 and 382), as such regulation may from time to time be amended, that are imposed on the Participating TO attributable to the service provided under the LGIA, or any amendments thereto. The Participating TO will render bills to the Interconnection Customer for any such fees and charges incurred since the preceding billing. As of the Effective Date, no such fees and charges are

expected to be imposed on the Participating TO that are attributable to the service provided under the LGIA.

**14. Interconnection Facilities, Reliability Network Upgrades and Delivery Network Upgrades Cost Summary:**

(a) Estimated Cost:

Element	Interconnection Facilities Cost	Interconnection Customer's Maximum Network Upgrade Cost Responsibility**	Participating TO's Delivery Network Upgrades Cost	Participating TO's Reliability Network Upgrades Cost	Participating TO's Total Network Upgrade Costs Only
<b>Estimated costs of the Participating TO's Network Upgrades</b>					
EITP 220kV T/L - double circuit		136,000,000	\$198,528,000		\$198,528,000
EITP 115kV T/L - 115kV Connections to first & last 220kV structures			\$844,000		\$844,000
EITP 115kV T/L - Removal of existing transmission line		\$3,150,000	\$2,883,000		\$2,883,000
Eldorado Substation - Replacement of 220/115kV transformer bank			\$5,650,000		\$5,650,000
Corporate Real Estate activities related to EITP 220kV T/L Right of Way		\$10,200,000	\$7,771,000		\$7,771,000
Licensing and Permitting activities related to EITP 220kV T/L Right of Way		\$6,900,000	\$10,252,000		\$10,252,000
Eldorado – Lugo 500kV T/L – Replace one OHGW with OPGW				\$25,269,000	\$25,269,000
Ivanpah Substation – 115 kV Switchyard				\$19,125,000	\$19,125,000
Cool Water G.S. 115kV Switchyard – Line protection upgrades				\$588,000	\$588,000
Eldorado Substation – Line protection upgrades				\$588,000	\$588,000
Mountain Pass Substation – Line protection upgrades				\$588,000	\$588,000
Facilities for SPS				\$7,692,000	\$7,692,000
RTU at Ivanpah Substation				\$73,000	\$73,000

Corporate Real Estate activities related to Ivanpah Substation and new fiber optic lines					\$487,000	\$487,000
Eldorado-B-CW-DS-Mountain Pass 115kV T/L – Loop into Ivanpah Substation					\$804,000	\$804,000
Ivanpah Substation – Two 220/115kV transformer banks and 220kV Switchyard			\$30,332,000			
Eldorado Substation – 220kV bus extension and new double breaker line position			\$3,998,000			
<b>Total</b>			\$190,580,000	\$225,928,000	\$55,214,000	\$281,142,000
CAISO No. 131 cost allocation			(\$44,500,000)			
CAISO No. 162 cost allocation			(\$18,600,000)			
<b>Total</b>			\$127,480,000			
<b>Participating TO's Interconnection Facilities – SCE Work:</b>						
Ivanpah 3 – Ivanpah 115 kV generation tie-line	\$207,000			-		
Ivanpah Substation – 115 kV Switchyard	315,000			-		
Telecommunications – SCE Work	481,000			-		
Power System Control – RTU at Generating Facility	116,000			-		
<b>Subtotal</b>	<b>\$1,119,000</b>			-		
<b>Participating TO's Interconnection Facilities – Interconnection Customer's Work:</b>						
Deed-To Telecommunications Facilities	[TBD]*					
<b>Subtotal</b>	<b>[TBD]*</b>			-		
<b>Total</b>	<b>[TBD]*</b>			-		

\* Cost to be provided later in an amendment to the LGIA, subject to FERC's acceptance or approval.

\*\*Interconnection Customer's cost responsibility for Network Upgrades (reliability and delivery) specified in Section 2 and Section 17 of this Appendix A is based on Participating TO's total cost of delivery and reliability network upgrades shown in the Interconnection Facilities Study Final Report, dated April 5, 2010.

Network Upgrades cost listed in the table above are being funded by the Participating TO since the Participating TO is exercising its option, pursuant to Article 11.3 of the LGIA, to fund the costs of these Network Upgrades provided that the requirements specified in Section 12(d) have been met.



<b>Effective Date</b>	<b>Customer-Financed Monthly Rate</b>	<b>Estimated</b>		<b>Actual</b>	
		<b>Interconnection Facilities Cost*</b>	<b>Interconnection Facilities Charge*</b>	<b>Interconnection Facilities Cost*</b>	<b>Interconnection Facilities Charge*</b>
As of the Interconnection Facilities Completion Date*	0.38%	\$1,119,000	\$4,252.20	[to be inserted after true-up]	[to be inserted after true-up]

\* The Interconnection Facilities Cost and Interconnection Facilities Charge do not include the Deed-To Telecommunications Facilities which will be added, by an amendment to this LGIA, when they have been determined.

**16. Estimate of Monthly Incurred Costs for the Participating TO's Interconnection Facilities, Distribution Upgrades and Network Upgrades:**

An estimate of the monthly incurred costs to be paid by the Interconnection Customer is as shown.  
 Note: This estimate assumes that the LGIA has been executed by July 31, 2010.

Payment Period	Interconnection Facilities Cost*, excluding the Deed-To Telecommunications Cost	Reliability Network Upgrades Cost	Delivery Network Upgrades Cost	One-Time Cost	Total*	Due Date
1	\$10,000				\$10,000	01/1/2011
2	\$10,000				\$10,000	02/1/2011
3	\$10,000				\$10,000	03/1/2011
4	\$20,000				\$20,000	04/1/2011
5	\$20,000				\$20,000	05/1/2011
6	\$20,000				\$20,000	06/1/2011
7	\$30,000				\$30,000	07/1/2011
8	\$30,000				\$30,000	08/1/2011
9	\$30,000				\$30,000	09/1/2011
10	\$40,000				\$40,000	10/1/2011
11	\$60,000				\$60,000	11/1/2011
12	\$70,000				\$70,000	12/1/2011
13	\$70,000				\$70,000	01/1/2012
14	\$70,000				\$70,000	02/1/2012
15	\$70,000				\$70,000	03/1/2012
16	\$70,000				\$70,000	04/1/2012
17	\$70,000				\$70,000	05/1/2012
18	\$70,000				\$70,000	06/1/2012
19	\$60,000				\$60,000	07/1/2012
20	\$60,000				\$60,000	08/1/2012
21	\$60,000				\$60,000	09/1/2012
22	\$60,000				\$60,000	10/1/2012
23	\$60,000				\$60,000	11/1/2012
24	\$49,000				\$49,000	12/1/2012
<b>Total</b>	<b>\$1,119,000</b>		-		<b>\$1,119,000</b>	

Delivery Network Upgrades Payment = (Delivery Network Upgrades Cost + associated One-Time Cost) = \$0

Interconnection Facilities Payment = (Interconnection Facilities Cost, excluding the Deed-To Telecommunications Cost + associated One-Time Cost) = \$1,119,000

Reliability Network Upgrades Payment = (Reliability Network Upgrades Cost + associated One-Time Cost) = \$0

## 17. Other Potential Facilities:

The Interconnection Customer understands and acknowledges that the Interconnection of the Ivanpah 3 Project is dependent upon the completion of the following network and distribution upgrades that comprise the EITP. Furthermore, the Interconnection Customer may also be responsible for the cost of the following facilities and any additional facilities or modifications to the Participating TO's electric system required to interconnect the Ivanpah 3 Project as a result of the termination or amendment of another project's interconnection agreement, unless such facilities are modified in accordance with Section 19 of this Appendix A. The Interconnection Customer's revised cost responsibility for the network upgrades, and for any such additional facilities or modifications, if any, would be reflected in an amendment to the LGIA. Such amendment shall be subject to FERC acceptance or approval.

### (i) Transmission Lines:

#### **A. Eldorado – Baker – Cool Water – Dunn Siding – Mountain Pass 115kV Line – Line Removal**

Remove approximately thirty-six miles of existing line between Eldorado Substation and the new Ivanpah Substation to provide space for the construction of the new Eldorado – Ivanpah No.1 and No. 2 220kV transmission lines.

#### **B. Eldorado – Ivanpah No. 1 220 kV Transmission Line (Initially Energized at 115 kV)**

Install approximately thirty-six miles of new double-circuit 220 kV transmission line, initially energized at 115 kV, equipped with 2-1590 kcmil ACSR conductors on one side of the structure. The line will be equipped with OPGW to provide the second telecommunication path required for the SPS and other telecommunication requirements applicable to the Ivanpah Substation.

#### **C. Eldorado – Ivanpah 115 kV Transmission Line – 115 kV Connections to First and Last 220 kV Structures**

Install a new section of 115 kV line from the Ivanpah 115 kV switchyard to the first 220 kV structure closest to the Ivanpah switchyard placed on the existing 115 kV right-of-way using 336.4 kcmil ACSR conductors to connect the new 115 kV line section to the new 220 kV transmission line initially energized at 115 kV.

Cut the existing line at the Eldorado Substation end and connect the existing 336.4 kcmil ACSR conductors to the last 220 kV structure closest to Eldorado Substation to connect the existing 115 kV line section to the new 220 kV transmission line initially energized at 115 kV.

**D. Eldorado – Lugo 500 kV Transmission Line**

Replace one of the two overhead ground wires (OHGW) with new optical ground wire (OPGW) on the first 30 circuit miles of line from Eldorado Substation to a structure near the town of Nipton. This transmission upgrade is required to provide a segment for one of the telecommunication channels from Eldorado Substation to the new Nipton microwave site. Participating TO may install a functional alternative to this telecommunication path if an economic and feasible alternative is determined to be available.

**E. Eldorado – Ivanpah 115 kV Transmission Line – Line Loop**

Loop the existing line into Ivanpah Substation and form the two new Ivanpah – Baker – Cool Water – Dunn Siding – Mountain Pass and Eldorado – Ivanpah 115 kV Lines.

**ii) Substations:****A. Ivanpah Substation – 115 kV Initial Configuration**

Install the initial configuration of a new 1120 MVA, 220/115 kV substation consisting of the section of 115 kV switchyard with three double-breaker line positions to loop the existing Eldorado – Baker – Cool Water – Dunn Siding – Mountain Pass 115 kV line in and out of the station.

The initial configuration will also include the site preparation, perimeter fences, control cable trenches and paved driveways for the complete 885-foot by 850-foot area required for the ultimate configuration plus the installation of the mechanical electrical equipment room (MEER) and a microwave antenna tower.

**B. Cool Water Generating Station 115 kV Switchyard – Line Protection Upgrades**

Upgrade the line protection relays on the existing Eldorado – Baker – Cool Water – Dunn Siding – Mountain Pass 115 kV line, which will become the Ivanpah – Baker – Dunn Siding – Mountain Pass 115 kV Line.

**C. Eldorado Substation – Line Protection Upgrades**

Upgrade the line protection relays on the existing Baker – Cool Water – Dunn Siding – Mountain Pass 115 kV line, which will become the Ivanpah 115 kV line.

**D. Eldorado Substation – Transformer Upgrade**

Replace the existing 108 MVA, 220/115 kV transformer bank with a new 280 MVA transformer.

**E. Mountain Pass Substation – Line Protection Upgrades**

Upgrade the line protection relays on the existing Eldorado – Baker – Cool Water – Dunn Siding 115 kV line, which will become the Ivanpah – Baker – Cool Water – Dunn Siding 115 kV Line.

**iii) Telecommunications:**

**Special Protection Schemes**

Install terminal equipment at Ivanpah Substation to support the SPS-1 and SPS-2 relays.

Install new all dielectric self supporting (ADSS) fiber optic cable on new poles and a segment of underground fiber optic cable from the Eldorado – Lugo 500 kV structure located near the town of Nipton to the new Nipton microwave repeater site.

Install a new microwave path between the new Nipton microwave repeater site and Ivanpah Substation.

Install approximately seven miles of new ADSS fiber optic cable on existing 33 kV poles from Ivanpah Substation to Mountain Pass Substation.

Install approximately one mile of new ADSS fiber optic cable on the existing Nipton 33 kV circuit poles from Mountain Pass Substation to the Mountain Pass AT&T communications site.

Also install interface terminal equipment at all locations addressed above plus new signal amplifying equipment at Mountain Pass Substation.

**iv) Power System Control:**

**RTU – Ivanpah Substation**

Install one RTU at Ivanpah Substation to monitor the 115 kV line elements.

**v) Corporate Real Estate:**

**A. Ivanpah Substation and Fiber Optic Cables**

Perform all activities related to survey, mapping and land acquisition as required to install the new Ivanpah Substation and all new fiber optic cables.

**B. Eldorado - Ivanpah 220 kV Transmission Lines**

Perform all activities related to the licensing and permitting process for the new Eldorado –Ivanpah No. 1 and No. 2 220 kV transmission lines.

**vi) Licensing and Permitting:****Eldorado – Ivanpah 220 kV Transmission Lines**

Perform all activities related to the licensing and permitting process for the new Eldorado –Ivanpah No. 1 and No. 2 220 kV transmission lines.

**vii) Distribution Line:**

Route a section of the existing Nipton 33 kV distribution circuit out of Mountain Pass Substation into Ivanpah Substation to provide a source of substation light and power.

Element	Interconnection Customer's Maximum Cost Responsibility
EITP 115kV T/L - Removal of existing transmission line	\$3,150,000
Eldorado Substation - Replacement of 220/115kV transformer bank	\$5,650,000
Corporate Real Estate activities related to EITP 220kV T/L Right of Way	\$10,200,000
Licensing and Permitting activities related to EITP 220kV T/L Right of Way	\$6,900,000
Eldorado – Lugo 500kV T/L – Replace one OHGW with OPGW	\$25,400,000
Ivanpah Substation – 115 kV Switchyard	\$19,125,000
Cool Water G.S. 115kV Switchyard – Line protection upgrades	\$588,000
Eldorado Substation –line protection upgrades	\$588,000
Mountain Pass Substation –line protection upgrades	\$588,000
Facilities for SPS-1 and SPS-2	\$9,260,000
RTU at Ivanpah Substation	\$73,000
Eldorado – Ivanpah 115kV T/L – “Virtual Line”	\$18,600,000
Corporate Real Estate activities related to Ivanpah Substation and new fiber optic lines	\$2,000,000
Eldorado-B-CW-DS-Mountain Pass 115kV T/L – Loop into Ivanpah Substation	\$804,000
Total	\$102,926,000

Note: These facilities and costs are not included in Section 14.

**18. Not Used****19. Conditions for Modification of Specification of Network Upgrades**

- (a) The Network Upgrades specified in Section 2 and Section 17 of this Appendix A anticipate additional upgrades for other interconnection customers, and are

designed to facilitate the possibility of interconnecting additional generation including one interconnection request that has resulted in an executed LGIA between the CAISO, Participating TO and an affiliate of the Interconnection Customer and a second LGIA that is in the process of being finalized between the CAISO, Participating TO and another affiliate of the Interconnection Customer. As such, these Network Upgrades include additional facilities that would not be required solely for the interconnection of the Interconnection Customer's Generating Facility. Accordingly, unless at least one of the conditions specified in Section 19(b) has been satisfied by July 31, 2010, the CAISO may, in its sole discretion, determine that a review of the Network Upgrades specified in Section 2 and Section 17 of this Appendix A is required in order to assess whether and to what extent these Network Upgrades should be modified. If this review indicates that such modification is required, the CAISO shall consult with the Participating TO and Interconnection Customer and shall determine the extent to which the Network Upgrades must be modified to allow the upgrades to be approved by the CAISO for construction, either through any FERC-approved process to promote the development of transmission facilities to facilitate the integration of renewable resources, or through an amendment to this LGIA.

- (b)** Notwithstanding the provisions in Section 19(a), no modification to the Network Upgrades specified in Section 2 and Section 17 shall be required if: (1) the Participating TO has received a Certificate of Public Convenience and Necessity from the CPUC authorizing the construction of the Network Upgrades identified in Section 2 and Section 17, and has satisfied any conditions in that CPUC authorization requiring further CAISO approval of that construction, as those upgrades are part of the overall Eldorado-Ivanpah Transmission Project; or (2) the Interconnection Customer (or another interconnection customer) has entered into one or more other LGIAs for additional generating facilities sufficient to trigger the need for the construction of the Network Upgrades identified in Section 2 and Section 17, or has requested the CAISO to file such other LGIA(s) unexecuted with FERC in order to resolve any disagreement between the parties thereto.
- (c)** With respect to Section 19(b), the Parties have agreed that the Large Generator Interconnection Agreements for the Interconnection Customer's affiliates' other two plants planned for interconnection at Ivanpah Substation (CAISO Interconnection Requests Queue #s 131 and 162) along with this LGIA shall be sufficient to meet the condition in Section 19(b)(2). The Parties have also agreed to model those other LGIAs on the approaches taken in this LGIA so that all 3 LGIAs are consistent except for differences that are necessary such as megawatt levels and upgrade cost differences that are unique to the interconnection requests. This principle shall also apply to an unexecuted other LGIA filed with FERC.

## Appendix B To LGIA

### Milestones

**1. The Interconnection Customer's Selected Option:** Pursuant to Article 5.1 of the LGIA, the Interconnection Customer has selected the Standard Option.

**2. Milestone Dates:**

<u>Item</u>	<u>Milestone</u>	<u>Responsible Party</u>	<u>Due Date</u>
(a)	Submit proof of insurance coverage in accordance with Article 18.3 of the LGIA	Interconnection Customer	Within ten (10) Calendar Days of the execution of this LGIA
(b)	Submittal of written authorization to proceed with design and procurement of the Participating TO's Interconnection Facilities** to the Participating TO and CAISO in accordance with Article 5.5.2 of the LGIA	Interconnection Customer	Within thirty (30) Calendar Days of the Effective Date
(c)	Submittal of security for the Participating TO's Interconnection Facilities** to the Participating TO pursuant to Articles 5.5.3, 5.6.4 and 11.5 of the LGIA.  Submittal of security for Participating TO's Network Upgrades to the Participating TO pursuant to Articles 5.5.3, 5.6.4 and 11.5 of the LGIA if Interconnection Customer is required to fund such Network Upgrades	Interconnection Customer	Within thirty (30) Calendar Days of the Effective Date  Within thirty (30) Calendar Days of the date that it is determined that Interconnection Customer must fund such Network Upgrades
(d)	Submittal of written authorization to proceed with construction to the Participating TO and the CAISO pursuant to Article 5.6.3 of the LGIA	Interconnection Customer	Within thirty (30) Calendar Days of the Effective Date
(e)	Submittal of security for the estimated tax liability to the Participating TO pursuant to	Interconnection Customer	Within thirty (30) Calendar Days of the Effective Date

	Article 5.17.3 of the LGIA		
(f)	Submittal of Construction Documents for the Deed-To Telecommunications Facilities pursuant to Section 3(e) of Appendix C	Interconnection Customer	At least thirty (30) Calendar Days prior to start of construction of the Deed-To Telecommunications Facilities
(g)	Review of Construction Documents for the Deed-To Telecommunications Facilities pursuant to Section 3(e) of Appendix C	Participating TO	Within thirty (30) Calendar Days of receipt of Construction Documents
(h)	Completion of the Participating TO's Interconnection Facilities,** Distribution Upgrades and Network Upgrades	Participating TO	Within thirty (30) months following the Effective Date or within 14 months of approval of CPCN, whichever is earlier*
(i)	Submittal of initial specifications for the Interconnection Customer's Interconnection Facilities and the Ivanpah 3 Project, including System Protection Facilities, to the Participating TO and the CAISO pursuant to Article 5.10.1 of the LGIA	Interconnection Customer	At least one hundred eighty (180) Calendar Days prior to the Initial Synchronization Date
(j)	Initial information submission which shall include the Participating TO's Transmission System information necessary to allow the Interconnection Customer to select equipment, in accordance with Article 24.2 of the LGIA	Participating TO	At least one hundred eighty (180) Calendar Days prior to Trial Operation
(k)	Updated information submission by the Interconnection Customer, including manufacturer information in accordance with Article 24.3 of the LGIA	Interconnection Customer	No later than one hundred eighty (180) Calendar Days prior to Trial Operation
(l)	Review of and comment on the Interconnection Customer's initial specifications pursuant to Article 5.10.1 of the LGIA	Participating TO and CAISO	Within thirty (30) Calendar Days of the Interconnection Customer's

			submission of initial specifications
(m)	Submittal of final specifications for the Interconnection Customer's Interconnection Facilities and the Ivanpah 3 Project, including System Protection Facilities, to the Participating TO and the CAISO as specified in Article 5.10.1 of the LGIA	Interconnection Customer	At least ninety (90) Calendar Days prior to the Initial Synchronization Date
(n)	Review of and comment on the Interconnection Customer's final specifications pursuant to Article 5.10.1 of the LGIA	Participating TO and CAISO	Within thirty (30) Calendar Days of the Interconnection Customer's submission of final specifications
(o)	Notification of Balancing Authority Area to the Participating TO and CAISO pursuant to Article 9.2	Interconnection Customer	At least three (3) months prior to the Initial Synchronization Date
(p)	Performance of a complete calibration test and functional trip test of the System Protection Facilities pursuant to Article 9.7.4.6 of the LGIA	Interconnection Customer and Participating TO	At least sixty (60) Calendar Days prior to the In-Service Date
(q)	In-Service Date of Ivanpah 3 Project	Interconnection Customer	9/30/12* Interconnection Customer ("IC") required to provide written request
(r)	Initial Synchronization Date	Interconnection Customer	6/19/13* IC required to provide written request
(s)	Trial Operation period	Interconnection Customer	6/19/13 – 8/5/13*
(t)	Performance of a complete calibration test and functional trip test of the System Protection Facilities pursuant to Article 9.7.4.6 of the LGIA	Interconnection Customer and Participating TO	At least sixty (60) Calendar Days prior to the Commercial Operation Date
(u)	Testing of the Participating TO's Interconnection Facilities, Distribution Upgrades and Network Upgrades and testing of the Interconnection Customer's	Interconnection Customer and Participating TO	At least sixty (60) Calendar Days prior to the Initial Synchronization Date

	Interconnection Facilities and the Ivanpah 3 Project in accordance with Article 6.1 of the LGIA		
(v)	Provide written approval to the Interconnection Customer for the operation of the Ivanpah 3 Project in accordance with Article 6.1 of the LGIA	Participating TO	At least fifteen (15) Calendar Days prior to the Initial Synchronization Date
(w)	Commercial Operation Date	Interconnection Customer	8/5/13* (Requires formal written request for changes to COD)
(x)	Submittal of "as-built" drawings, information and documents for (i) the Interconnection Customer's Interconnection Facilities and the Electric Generating Units in accordance with Article 5.10.3 of the LGIA to the Participating TO and the CAISO, and (ii) the Deed-To Telecommunications Facilities for approval by the Participating TO in accordance with Section 3(l) of Appendix C	Interconnection Customer	Within one hundred twenty (120) Calendar Days after the Commercial Operation Date, unless otherwise agreed

\* Note: The Interconnection Customer and Participating TO understand and acknowledge that such timeline is only an estimate and that equipment and material lead times, labor availability, outage coordination, regulatory approvals, availability of utility services or other unforeseen events could delay the actual In-Service Date beyond that specified. The Parties shall work diligently and use good faith efforts to meet the milestone due dates listed above and shall keep each other apprised of progress and status on a regular basis.

\*\* Excludes the Deed-To Telecommunications Facilities

If the Interconnection Customer suspends work pursuant to Article 5.16 of the LGIA, then all milestones for each Party set forth in this Appendix B shall be suspended during the suspension period. Upon the Interconnection Customer's request to recommence the work, the Parties shall negotiate in good faith new revised milestone dates for each milestone, taking into account the period of suspension and necessary re-studies, if required. Appendix B and any terms and conditions associated with the estimated costs and payment schedule, if necessary, shall be amended following the establishment of such revised milestone due dates. If the Participating TO materially misses milestone due dates and if Interconnection Customer exercises its option in Table 2B in Appendix A to adjust its dates, then milestones in this Appendix B may be adjusted, if appropriate, so that Interconnection Customer's construction progress remains coordinated with Participating TO's construction progress.

The Interconnection Customer also understands and agrees that the method of service required to interconnect the project identified as CAISO No. 131 may require re-evaluation due to the suspension of the Ivanpah 3 Project and changes to the Participating TO's electrical system or addition of new generating resources.

## **Appendix C To LGIA**

### **Interconnection Details**

- 1. Generating Facility:** All equipment and facilities comprising the proposed solar-thermal generating facility with a rated output of 211 MW and an auxiliary load of 11 MW for a total net output of 200 MW, located in San Bernardino County, California approximately six miles west of the California/Nevada border, as disclosed by the Interconnection Customer in its Interconnection Request, which consists of four solar-powered steam boilers powering a 200 MW synchronous steam turbine-generator, meters and metering equipment and appurtenant equipment (the "Generating Facility" or the "Ivanpah 3 Project").
  
- 2. Interconnection Customer Operational Requirements.**

  - (a) Pursuant to Article 9.4 of the LGIA, the Interconnection Customer shall operate the Ivanpah 3 Project and the Interconnection Customer's Interconnection Facilities in accordance with the CAISO Tariff, the WSCC Reliability Management System Agreement and NERC requirements, including NERC/WECC reliability standards and Applicable Reliability Standards.
  - (b) The Ivanpah 3 Project shall be operated so as to prevent against and protect the following adverse conditions on the Participating TO's electric system: (i) inadvertent and unwanted re-energizing of a utility dead line or bus; (ii) interconnection while out of synchronization; (iii) overcurrent; (iv) voltage imbalance; (v) ground faults; (vi) generated alternating current frequency outside permitted safe limits; (vii) poor power factor or reactive power outside permitted limits; and abnormal waveforms.
  
- 3. Interconnection Principles:**

  - (a) This LGIA provides for interconnection of a total capability of 200 MW, resulting from the interconnection of the Ivanpah 3 Project, as described in Section 1 of this Appendix C. The Interconnection Customer acknowledges that if the Interconnection Customer wishes to increase the amount of interconnection capability provided pursuant to this LGIA, the Interconnection Customer shall be required to submit a new Interconnection Request in accordance with the terms and conditions of the CAISO Tariff.
  - (b) Review by the Participating TO of the electrical specifications, design, construction, operation, or maintenance of the Ivanpah 3 Project or the Interconnection Customer's Interconnection Facilities shall not constitute any representation as to the economic or technical feasibility, operational capability, or reliability of such facilities. The Interconnection Customer shall in no way represent to any third party that any such review by the Participating TO of such

facilities, including, but not limited to, any review of the design, construction, operation, or maintenance of such facilities by the Participating TO, is a representation by the Participating TO as to the economic or technical feasibility, operational capability, or reliability of the Ivanpah 3 Project or the Interconnection Customer's Interconnection Facilities.

- (c) The Interconnection Customer, at its sole expense, shall design, engineer, procure, construct, and install the Deed-To Telecommunications Facilities in accordance with the Participating TO's Specifications.
- (d) Prior to commencing construction of the Deed-To Telecommunications Facilities, the Participating TO shall review the Interconnection Customer's Construction Documents and, if acceptable, approve the design, engineering, and layout of the Deed-To Telecommunications Facilities. Such approval shall not be unreasonably withheld. The review and approval process shall be as follows:
  - (1) The Participating TO shall review the Construction Documents and respond to the Interconnection Customer within thirty (30) Calendar Days of receipt of the documents, or as otherwise agreed to by the Parties. If the Participating TO approves the foregoing documents, such approval shall be set forth in writing within that time. However, if the Participating TO concludes the foregoing documents require changes in order to comply with the Participating TO's specifications or Good Utility Practice, or to ensure that the ensuing facilities and upgrades will be compatible with the Participating TO's facilities, the Participating TO will submit a list of required changes within that time. The Interconnection Customer shall have sixty (60) Calendar Days after receipt of the required changes, or as otherwise agreed to in writing by the Parties, to revise the Construction Documents.
  - (2) If the Interconnection Customer does not change the Construction Documents to the Participating TO's satisfaction within the time allotted, the Participating TO shall have the option to take over construction of the Deed-To Telecommunications Facilities at the Interconnection Customer's expense. If the Participating TO elects to exercise such option, the LGIA will be amended accordingly, subject to FERC's acceptance or approval.
- (e) During construction of the Deed-To Telecommunications Facilities, the Participating TO shall have the right to access the Deed-To Telecommunications Facilities to conduct inspections of such facilities. In the event the Participating TO accesses the construction site, the Participating TO shall adhere to Good Utility Practice.
- (f) If, at any time during construction and until the transfer of ownership of the Deed-To Telecommunications Facilities in accordance with Section 3(i) below, the Participating TO determines that the Deed-To Telecommunications Facilities do not meet the Participating TO's standards and specifications, the following provisions shall apply:

- (1) The Participating TO shall provide written notification of the deficiencies to the Interconnection Customer within fifteen (15) Calendar Days after such determination. If the Interconnection Customer does not remedy such deficiencies within sixty (60) Calendar Days of receipt of written notification or as otherwise agreed to in writing by the parties, the Participating TO shall have the option to take over construction of the Deed-To Telecommunications Facilities, including the removal or tearing out of any defective or nonconforming facilities or work and the replacement with acceptable materials or work. Such work performed by the Participating TO shall be at the Interconnection Customer's sole expense. If the Participating TO elects to exercise such option, the LGIA will be amended accordingly, subject to FERC's acceptance or approval.
  - (2) If the Participating TO exercises its option to take over construction of the Deed-To Telecommunications Facilities, the Interconnection Customer shall also be required to provide the Participating TO with sole title to the Deed-To Telecommunications Facilities and with required easements within sixty (60) Calendar Days after the Participating TO exercises its option to take over construction, or as otherwise agreed to in writing by the parties. The Participating TO may clear title to the foregoing facilities and upgrades. Such work performed by the Participating TO shall be the Interconnection Customer's sole expense.
- (g) The Participating TO shall apply, at the Interconnection Customer's sole expense, to obtain any regulatory approvals required to be obtained by the Participating TO for the construction, operation and maintenance of Deed-To Telecommunications Facilities.
- (h) In preparation for transferring ownership, pursuant to Section 3(i) below, of the Deed-To Telecommunications Facilities, the Interconnection Customer shall complete the following provisions:
- (1) The Interconnection Customer shall obtain manufacturer's standard warranties for the Deed-To Telecommunications Facilities which are transferable directly to the Participating TO pursuant to the terms of the Title, Transfer, Assignment and Assumption Agreement specified in Section 3(i)(5) below.
  - (2) The Interconnection Customer will warrant that it holds clear title to the foregoing facilities and upgrades, and that such title is free of any liens, claims, charges, security interests or other encumbrances.
- (i) Transfer of ownership of the Deed-To Telecommunications Facilities shall take place pursuant to the following schedule:
- (1) After the completion of construction of the Deed-To Telecommunications Facilities, the Interconnection Customer shall provide written notice of

completion ("Notice of Completion") to the Participating TO within fifteen (15) Calendar Days of completion.

- (2) Upon receiving the Interconnection Customer's Notice of Completion, the Participating TO may request documents and information from the Interconnection Customer in order to establish, to the Participating TO's satisfaction, that the Interconnection Customer holds sole title, free of liens, claims, charges, security interests or other encumbrances, to the Deed-To Telecommunications Facilities. The Interconnection Customer shall have fifteen (15) Calendar Days to provide such documents and information, or as otherwise agreed to in writing by the parties.
- (3) After receiving the Notice of Completion, the Participating TO will perform an inspection and field test to determine whether the Deed-To Telecommunications Facilities meets the Participating TO's Specifications. The inspection and field test shall take place on a mutually agreed date no later than fifteen (15) Calendar Days after the Participating TO receives the Interconnection Customer's Notice of Completion. If the Parties are unable to agree upon a date before the fifteen (15) day period expires, the Participating TO shall have the right to enter the premises to inspect the premises, and conduct field tests on a date of its choosing within the next fifteen (15) Calendar Days, or as otherwise agreed to in writing by the parties. The Participating TO shall provide the Interconnection Customer with written notice five (5) Calendar Days prior to the inspection and testing should this latter course be taken.
- (4) If the Participating TO is satisfied with the results of the foregoing inspection and field test, the Participating TO shall provide written notice of such satisfaction to the Interconnection Customer within fifteen (15) Calendar Days of the completion of the inspection and field test, or as otherwise agreed to in writing by the parties.
- (5) Within sixty (60) Calendar Days of the Interconnection Customer's receipt of the written notice of the satisfactory inspection and field test, or as otherwise agreed to in writing by the parties, the parties shall complete the transfer of the Deed-To Telecommunications Facilities from the Interconnection Customer to the Participating TO. Such transfer shall be made pursuant to a separate agreement labeled as "Title, Transfer, Assignment and Assumption Agreement".
- (6) Except for testing necessary to complete and approve the Deed-To Telecommunications Facilities, the Deed-To Telecommunications Facilities shall not be energized until such facilities and upgrades have been transferred, and any necessary easements have been provided, to the Participating TO. Such testing shall be coordinated and approved by the Participating TO.

- (j) Following the transfer of the Deed-To Telecommunications Facilities to the Participating TO, the Participating TO shall own, operate and maintain the Deed-To Telecommunications Facilities.
- (k) The Interconnection Customer shall deliver to the Participating TO "as-built" drawings, information, and any other documents that are required by the Participating TO to assure that the Deed-To Telecommunications Facilities are built to the standards and specifications required by the Participating TO within one hundred twenty (120) Calendar Days after the Commercial Operation Date.
- (l) The Interconnection and operation of the Ivanpah 3 Project is dependent upon the completion of the EITP network and distribution upgrades identified in Section 2 and Section 17 of this Appendix A.

#### **4. Interconnection Operations:**

- (a) The Interconnection Customer shall cause the Ivanpah 3 Project to comply with any requirements for SPS required to prevent thermal overloads and unstable conditions resulting from outages provided that such requirements are in accordance with applicable FERC regulations, CAISO Tariff provisions and protocols, NERC and WECC requirements, and pursuant to Good Utility Practice. If any new SPS or changes to an existing SPS are required to prevent thermal overloads and unstable conditions resulting from outages, Interconnection Customer shall comply with such requirements in accordance with applicable FERC regulations, CAISO Tariff provisions and protocols, NERC and WECC requirements, and pursuant to Good Utility Practice. Pursuant to Good Utility Practice, the CAISO and Participating TO will provide the Interconnection Customer advance notice of any required SPS and an opportunity to comment on the proposed changed or new SPS. The Participating TO and the CAISO reserve their right to accept or reject Interconnection Customer's comments and their decision in this respect shall take precedence. The Participating TO and the CAISO shall establish any SPS in accordance with applicable FERC regulations, CAISO Tariff provisions and protocols, NERC and WECC requirements, and pursuant to Good Utility Practice. The Interconnection Customer shall not be responsible for the costs of new SPSs or changes to existing SPSs beyond that identified in Appendix A. The Interconnection Customer will not be entitled to any compensation from the Participating TO, pursuant to the LGIA, for loss of generation output when (i) the Ivanpah 3 Project Generating Facility is reduced or tripped off-line due to implementation of an SPS; or (ii) such generation output is restricted in the event the SPS becomes inoperable. The CAISO and Participating TO shall act with due diligence to resolve and remove all situations that cause or caused implementation of the SPS or could result in reduced delivery of generation output.
- (b) The Interconnection Customer shall cause the Ivanpah 3 Project to participate in CAISO congestion management in accordance with CAISO Tariff and Scheduling Protocols.

- (c) Following outages of the Interconnection Facilities or the Ivanpah 3 Project, the Interconnection Customer shall not energize the Ivanpah 3 Project in parallel with the Participating TO's system for any reason without specific permission from the Participating TO's and the CAISO's operations personnel, as applicable. Such permission shall not be unreasonably withheld.
- (d) The Interconnection Customer shall maintain operating communications with the Participating TO's designated switching center. The operating communications shall include, but not be limited to, system parallel operation or separation, scheduled and unscheduled outages, equipment clearances, protective relay operations, and levels of operating voltage and reactive power.

**5. Compliance with Applicable Reliability Standards: The Interconnection**

Customer shall comply with all Applicable Reliability Standards for its Interconnection Customer's Interconnection Facilities and the Ivanpah 3 Project. The Participating TO will not assume any responsibility for complying with mandatory reliability standards for such facilities and offers no opinion whether the Interconnection Customer must register with NERC. If required to register with NERC, the Interconnection Customer shall be responsible for complying with all Applicable Reliability Standards for its Interconnection Customer's Interconnection Facilities up to the Point of Change of Ownership as described in Appendix A of this LGIA.

## **Appendix D To LGIA**

### **Security Arrangements Details**

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

The Interconnection Customer shall meet the requirements for security implemented pursuant to the CAISO Tariff, including the CAISO's standards for information security posted on the CAISO's internet web site at the following internet address: <http://www.caiso.com/pubinfo/info-security/index.html>.

**Appendix E  
To LGIA**

**Commercial Operation Date**

This Appendix E is a part of the LGIA.

**[Date]**

Mr. Stephen Rutty  
Manager of Grid Assets  
California Independent System Operator Corporation  
151 Blue Ravine Road  
Folsom, CA 95630

Mr. Robert Kott  
Manager of Model and Contract Implementation  
California Independent System Operator Corporation  
151 Blue Ravine Road  
Folsom, CA 95630

Mr. William Law  
Manager, Grid Contracts Administration and Billing  
Southern California Edison Company  
P. O. Box 800  
2244 Walnut Grove Avenue  
Rosemead, California 91770

Re: **Solar Partners VIII, LLC** - Ivanpah 3 Project Electric Generating Units

Dear Messrs. Rutty, Kott, and Law:

On **[Date]**, **Solar Partners VIII, LLC** (, a subsidiary of **BrightSource Energy, Inc. as successor to Luz II, Inc.**) has completed Trial Operation of Ivanpah 3 Project Unit No. \_\_\_\_\_. This letter confirms that **Solar Partners VIII, LLC** (a subsidiary of **BrightSource Energy, Inc. as successor to Luz II, Inc.**) commenced Commercial Operation of Ivanpah 3 Project Unit No. \_\_\_\_\_ at the Electric Generating Unit, effective as of **[Date plus one day]**.

Thank you.

**[Signature]**

**[Interconnection Customer Representative]**

cc: Linda Wright

**Appendix F  
To LGIA**

**Addresses for Delivery of Notices and Billings**

**Notices:**

CAISO:

California ISO  
Ms. Linda Wright  
151 Blue Ravine Rd.  
Folsom, CA 95630

Participating TO:

Southern California Edison Company  
Manager, Grid Contracts Administration and Billing  
P. O. Box 800  
Rosemead, California 91770

Interconnection Customer:

BrightSource Energy- Solar Partners VIII, LLC  
Attn: Doug Buchanan, VP  
US Project Development  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612

Todd Stewart, Director  
Project Development (Ivanpah)  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612

Operational Matters, Force Majeure, and Outage Notices:

The Parties agree to exchange the following information prior to the Initial Synchronization Date of the Ivanpah 3 Project.

<b>CALIFORNIA ISO</b>	<b>PARTICIPATING TO – SOUTHERN CALIFORNIA EDISON COMPANY.</b>	<b>INTERCONNECTION CUSTOMER - SOLAR PARTNERS VIII, LLC</b>
ISO Real Time Desk/24 Hour Desk:	Control Center/Switching Center:	<b>IVANPAH 3 Generating Facility</b>
Alternate phone:	24-hour Telephone:	24-hour Telephone:
Email (non-emergency only):	Email (non-emergency only):	Alternate phone: Email (non-emergency only):

**For Emergencies:**

BrightSource Energy- Solar Partners VIII, LLC  
Attn: Doug Buchanan, VP  
US Project Development  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612

Todd Stewart, Director  
Project Development (Ivanpah)  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612

**Billings and Payments:**Participating TO:

Southern California Edison Company  
Accounts Receivable  
P. O. Box 600  
Rosemead, California 91770-0600

Interconnection Customer:

BrightSource Energy- Solar Partners VIII, LLC  
Attn: Accounts Payable  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612

CAISO:

California ISO  
Finance Dept.  
Mr. Dennis Estrada  
151 Blue Ravine Rd.  
Folsom, CA 95630

**Alternative Forms of Delivery of Notices (telephone, facsimile or e-mail):**CAISO:

[lwright@caiso.com](mailto:lwright@caiso.com)  
[Jbrown@caiso.com](mailto:Jbrown@caiso.com)

Participating TO:

Southern California Edison Company  
Manager, Grid Contracts Administration and Billing  
Tel: (626) 302-9640  
Fax: (626) 302-1152

Interconnection Customer:

BrightSource Energy- Solar Partners VIII, LLC  
Attn: Doug Buchanan, VP  
US Project Development  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612  
[dbuchanan@brightsourceenergy.com](mailto:dbuchanan@brightsourceenergy.com)

Todd Stewart, Director  
Project Development (Ivanpah)  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612  
Tel: (510) 550-8908  
Fax: (510) 550-8165  
[tstewart@brightsourceenergy.com](mailto:tstewart@brightsourceenergy.com)

**Appendix G  
To LGIA**

**Reliability Management System Agreement**

**RELIABILITY MANAGEMENT SYSTEM AGREEMENT  
by and between  
CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION  
and  
SOLAR PARTNERS VIII, LLC (a subsidiary of BrightSource Energy, Inc. as  
successor to Luz II, Inc.)**

**THIS RELIABILITY MANAGEMENT SYSTEM AGREEMENT** (the "Agreement"), is entered into this 22<sup>nd</sup> day of July, 2010, by and between California Independent System Operator Corporation (the "Transmission Operator") and Solar Partners VIII, LLC (a subsidiary of BrightSource Energy, Inc. as successor to Luz II, Inc.) (the "Generator").

**WHEREAS**, there is a need to maintain the reliability of the interconnected electric systems encompassed by the WSCC in a restructured and competitive electric utility industry;

**WHEREAS**, with the transition of the electric industry to a more competitive structure, it is desirable to have a uniform set of electric system operating rules within the Western Interconnection, applicable in a fair, comparable and non-discriminatory manner, with which all market participants comply; and

**WHEREAS**, the members of the WSCC, including the Transmission Operator, have determined that a contractual Reliability Management System provides a reasonable, currently available means of maintaining such reliability.

**NOW, THEREFORE**, in consideration of the mutual agreements contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Transmission Operator and the Generator agree as follows:

**1. PURPOSE OF AGREEMENT**

The purpose of this Agreement is to maintain the reliable operation of the Western Interconnection through the Generator's commitment to comply with certain reliability standards.

## 2. DEFINITIONS

In addition to terms defined in the beginning of this Agreement and in the Recitals hereto, for purposes of this Agreement the following terms shall have the meanings set forth beside them below.

**Control Area** means an electric system or systems, bounded by interconnection metering and telemetry, capable of controlling generation to maintain its interchange schedule with other Control Areas and contributing to frequency regulation of the Western Interconnection.

**FERC** means the Federal Energy Regulatory Commission or a successor agency.

**Member** means any party to the WSCC Agreement.

**Party** means either the Generator or the Transmission Operator and

**Parties** means both of the Generator and the Transmission Operator.

**Reliability Management System** or **RMS** means the contractual reliability management program implemented through the WSCC Reliability Criteria Agreement, the WSCC RMS Agreement, this Agreement, and any similar contractual arrangement.

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

**Working Day** means Monday through Friday except for recognized legal holidays in the state in which any notice is received pursuant to Section 8.

**WSCC** means the Western Systems Coordinating Council or a successor entity.

**WSCC Agreement** means the Western Systems Coordinating Council Agreement dated March 20, 1967, as such may be amended from time to time.

**WSCC Reliability Criteria Agreement** means the Western Systems Coordinating Council Reliability Criteria Agreement dated June 18, 1999 among the WSCC and certain of its member transmission operators, as such may be amended from time to time.

**WSCC RMS Agreement** means an agreement between the WSCC and the Transmission Operator requiring the Transmission Operator to comply with the reliability criteria contained in the WSCC Reliability Criteria Agreement.

**WSCC Staff** means those employees of the WSCC, including personnel hired by the WSCC on a contract basis, designated as responsible for the administration of the RMS.

### **3. TERM AND TERMINATION**

**3.1 Term.** This Agreement shall become effective [thirty (30) days after the date of issuance of a final FERC order accepting this Agreement for filing without requiring any changes to this Agreement unacceptable to either Party. Required changes to this Agreement shall be deemed unacceptable to a Party only if that Party provides notice to the other Party within fifteen (15) days of issuance of the applicable FERC order that such order is unacceptable.

**3.2 Notice of Termination of WSCC RMS Agreement.** The Transmission Operator shall give the Generator notice of any notice of termination of the WSCC RMS Agreement by the WSCC or by the Transmission Operator within fifteen (15) days of receipt by the WSCC or the Transmission Operator of such notice of termination.

**3.3 Termination by the Generator.** The Generator may terminate this Agreement as follows:

- (a) following the termination of the WSCC RMS Agreement for any reason by the WSCC or by the Transmission Operator, provided such notice is provided within forty-five (45) days of the termination of the WSCC RMS Agreement;
- (b) following the effective date of an amendment to the requirements of the WSCC Reliability Criteria Agreement that adversely affects the Generator, provided notice of such termination is given within forty-five (45) days of the date of issuance of a FERC order accepting such amendment for filing, provided further that the forty-five (45) day period within which notice of termination is required may be extended by the Generator for an additional forty-five (45) days if the Generator gives written notice to the Transmission Operator of such requested extension within the initial forty-five (45) day period; or
- (c) for any reason on one year's written notice to the Transmission Operator and the WSCC.

**3.4 Termination by the Transmission Operator.** The Transmission Operator may terminate this Agreement on thirty (30) days' written notice following the termination of the WSCC RMS Agreement for any reason by the WSCC or by the Transmission Operator, provided such notice is provided within thirty (30) days of the termination of the WSCC RMS Agreement.

**3.5 Mutual Agreement.** This Agreement may be terminated at any time by the mutual agreement of the Transmission Operator and the Generator.

### **4. COMPLIANCE WITH AND AMENDMENT OF WSCC RELIABILITY CRITERIA**

**4.1 Compliance with Reliability Criteria.** The Generator agrees to comply with the

requirements of the WSCC Reliability Criteria Agreement, including the applicable WSCC reliability criteria contained in Section IV of Annex A thereof, and, in the event of failure to comply, agrees to be subject to the sanctions applicable to such failure. Each and all of the provisions of the WSCC Reliability Criteria Agreement are hereby incorporated by reference into this Agreement as though set forth fully herein, and the Generator shall for all purposes be considered a Participant, and shall be entitled to all of the rights and privileges and be subject to all of the obligations of a Participant, under and in connection with the WSCC Reliability Criteria Agreement, including but not limited to the rights, privileges and obligations set forth in Sections 5, 6 and 10 of the WSCC Reliability Criteria Agreement.

**4.2 Modifications to WSCC Reliability Criteria Agreement.** The Transmission Operator shall notify the Generator within fifteen (15) days of the receipt of notice from the WSCC of the initiation of any WSCC process to modify the WSCC Reliability Criteria Agreement. The WSCC RMS Agreement specifies that such process shall comply with the procedures, rules, and regulations then applicable to the WSCC for modifications to reliability criteria.

**4.3 Notice of Modifications to WSCC Reliability Criteria Agreement.** If, following the process specified in Section 4.2, any modification to the WSCC Reliability Criteria Agreement is to take effect, the Transmission Operator shall provide notice to the Generator at least forty-five (45) days before such modification is scheduled to take effect.

**4.4 Effective Date.** Any modification to the WSCC Reliability Criteria Agreement shall take effect on the date specified by FERC in an order accepting such modification for filing.

**4.5 Transfer of Control or Sale of Generation Facilities.** In any sale or transfer of control of any generation facilities subject to this Agreement, the Generator shall as a condition of such sale or transfer require the acquiring party or transferee with respect to the transferred facilities either to assume the obligations of the Generator with respect to this Agreement or to enter into an agreement with the Control Area Operator in substantially the form of this Agreement.

## **5. SANCTIONS**

**5.1 Payment of Monetary Sanctions.** The Generator shall be responsible for payment directly to the WSCC of any monetary sanction assessed against the Generator pursuant to this Agreement and the WSCC Reliability Criteria Agreement. Any such payment shall be made pursuant to the procedures specified in the WSCC Reliability Criteria Agreement.

**5.2 Publication.** The Generator consents to the release by the WSCC of information related to the Generator's compliance with this Agreement only in accordance with the WSCC Reliability Criteria Agreement.

**5.3 Reserved Rights.** Nothing in the RMS or the WSCC Reliability Criteria Agreement shall affect the right of the Transmission Operator, subject to any necessary regulatory approval, to take such other measures to maintain reliability, including disconnection, which the Transmission Operator may otherwise be entitled to take.

## **6. THIRD PARTIES**

Except for the rights and obligations between the WSCC and Generator specified in Sections 4 and 5, this Agreement creates contractual rights and obligations solely between the Parties. Nothing in this Agreement shall create, as between the Parties or with respect to the WSCC: (1) any obligation or liability whatsoever (other than as expressly provided in this Agreement), or (2) any duty or standard of care whatsoever. In addition, nothing in this Agreement shall create any duty, liability, or standard of care whatsoever as to any other party. Except for the rights, as a third-party beneficiary with respect to Sections 4 and 5, of the WSCC against Generator, no third party shall have any rights whatsoever with respect to enforcement of any provision of this Agreement. Transmission Operator and Generator expressly intend that the WSCC is a third-party beneficiary to this Agreement, and the WSCC shall have the right to seek to enforce against Generator any provisions of Sections 4 and 5, provided that specific performance shall be the sole remedy available to the WSCC pursuant to this Agreement, and Generator shall not be liable to the WSCC pursuant to this Agreement for damages of any kind whatsoever (other than the payment of sanctions to the WSCC, if so construed), whether direct, compensatory, special, indirect, consequential, or punitive.

## **7. REGULATORY APPROVALS**

This Agreement shall be filed with FERC by the Transmission Operator under Section 205 of the Federal Power Act. In such filing, the Transmission Operator shall request that FERC accept this Agreement for filing without modification to become effective on the day after the date of a FERC order accepting this Agreement for filing. [This section shall be omitted for agreements not subject to FERC jurisdiction.]

## **8. NOTICES**

Any notice, demand or request required or authorized by this Agreement to be given in writing to a Party shall be delivered by hand, courier or overnight delivery service, mailed by certified mail (return receipt requested) postage prepaid, faxed, or delivered by mutually agreed electronic means to such Party at the following address:

**Transmission Operator:**

California ISO  
Ms. Roni Reese  
151 Blue Ravine Road  
Folsom, CA 95630  
Phone: (916) 608-7027  
Fax: (916) 608-7292

**Generator:**

BrightSource Energy- Solar Partners VIII, LLC  
Attn: Doug Buchanan, VP  
US Project Development  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612  
Phone: (510) 550-8908  
Fax: (510) 550-8165

Todd Stewart, Director,  
Project Development (Ivanpah)  
1999 Harrison Street, Suite 2150  
Oakland, CA 94612  
Phone: (510) 550-8908  
Fax: (510) 550-8165

The designation of such person and/or address may be changed at any time by either Party upon receipt by the other of written notice. Such a notice served by mail shall be effective upon receipt. Notice transmitted by facsimile shall be effective upon receipt if received prior to 5:00 p.m. on a Working Day, and if not received prior to 5:00 p.m. on a Working Day, receipt shall be effective on the next Working Day.

**9. APPLICABILITY**

This Agreement (including all appendices hereto and, by reference, the WSCC Reliability Criteria Agreement) constitutes the entire understanding between the Parties hereto with respect to the subject matter hereof, supersedes any and all previous understandings between the Parties with respect to the subject matter hereof, and binds and inures to the benefit of the Parties and their successors.

**10. AMENDMENT**

No amendment of all or any part of this Agreement shall be valid unless it is reduced to writing and signed by both Parties hereto. The terms and conditions herein specified shall remain in effect throughout the term and shall not be subject to change through application to the FERC or other governmental body or authority, absent the agreement of the Parties.

## **11. INTERPRETATION**

Interpretation and performance of this Agreement shall be in accordance with, and shall be controlled by, the laws of the State of California but without giving effect to the provisions thereof relating to conflicts of law. Article and section headings are for convenience only and shall not affect the interpretation of this Agreement. References to articles, sections and appendices are, unless the context otherwise requires, references to articles, sections and appendices of this Agreement.

## **12. PROHIBITION ON ASSIGNMENT**

This Agreement may not be assigned by either Party without the consent of the other Party, which consent shall not be unreasonably withheld; provided that the Generator may without the consent of the WSCC assign the obligations of the Generator pursuant to this Agreement to a transferee with respect to any obligations assumed by the transferee by virtue of Section 4.5 of this Agreement.

## **13. SEVERABILITY**

If one or more provisions herein shall be invalid, illegal or unenforceable in any respect, it shall be given effect to the extent permitted by applicable law, and such invalidity, illegality or unenforceability shall not affect the validity of the other provisions of this Agreement.

## **14. COUNTERPARTS**

This Agreement may be executed in counterparts and each shall have the same force and effect as an original.

IN WITNESS WHEREOF, the Transmission Operator and the Generator have each caused this Reliability Management System Agreement to be executed by their respective duly authorized officers as of the date first above written.

**California Independent System Operator Corporation**

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

*Keith E. Casey*



Name: \_\_\_\_\_

Title: \_\_\_\_\_  
KEITH E. CASEY, PH.D., VICE PRESIDENT  
MARKET & INFRASTRUCTURE DEVELOPMENT



Date: \_\_\_\_\_  
7/22/10

**Solar Partners VIII, LLC (a subsidiary of BrightSource Energy, Inc. as successor to Luz II, Inc.)**

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

*Douglas W. Buchanan*

Name: \_\_\_\_\_  
DOUGLAS W. BUCHANAN

Title: \_\_\_\_\_  
VP-US PROJECT DEVELOPMENT

Date: \_\_\_\_\_  
7/19/2010

**Appendix H  
To LGIA  
(Not Applicable)**

**INTERCONNECTION REQUIREMENTS FOR A WIND GENERATING PLANT**

Appendix H sets forth requirements and provisions specific to a wind generating plant. All other requirements of this LGIA continue to apply to wind generating plant interconnections.

**A. Technical Standards Applicable to a Wind Generating Plant**

**i. Low Voltage Ride-Through (LVRT) Capability**

A wind generating plant shall be able to remain online during voltage disturbances up to the time periods and associated voltage levels set forth in the standard below. The LVRT standard provides for a transition period standard and a post-transition period standard.

**Transition Period LVRT Standard**

The transition period standard applies to wind generating plants subject to FERC Order 661 that have either: (i) interconnection agreements signed and filed with FERC, filed with FERC in unexecuted form, or filed with FERC as non-conforming agreements between January 1, 2006 and December 31, 2006, with a scheduled In-Service Date no later than December 31, 2007, or (ii) wind generating turbines subject to a wind turbine procurement contract executed prior to December 31, 2005, for delivery through 2007.

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to prefault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the Participating TO. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles at a voltage as low as 0.15 p.u., as measured at the high side of the wind generating plant step-up transformer (i.e. the transformer that steps the voltage up to the transmission interconnection voltage or "GSU"), after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system.
2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU or to faults that would result in a voltage lower than 0.15 per unit on the high side of the GSU serving the facility.

3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static VAR Compensator, etc.) within the wind generating plant or by a combination of generator performance and additional equipment.
5. Existing individual generator units that are, or have been, interconnected to the network at the same location at the effective date of the Appendix H LVRT Standard are exempt from meeting the Appendix H LVRT Standard for the remaining life of the existing generation equipment. Existing individual generator units that are replaced are required to meet the Appendix H LVRT Standard.

### **Post-transition Period LVRT Standard**

All wind generating plants subject to FERC Order No. 661 and not covered by the transition period described above must meet the following requirements:

1. Wind generating plants are required to remain in-service during three-phase faults with normal clearing (which is a time period of approximately 4 – 9 cycles) and single line to ground faults with delayed clearing, and subsequent post-fault voltage recovery to prefault voltage unless clearing the fault effectively disconnects the generator from the system. The clearing time requirement for a three-phase fault will be specific to the wind generating plant substation location, as determined by and documented by the Participating TO. The maximum clearing time the wind generating plant shall be required to withstand for a three-phase fault shall be 9 cycles after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the CAISO Controlled Grid. A wind generating plant shall remain interconnected during such a fault on the CAISO Controlled Grid for a voltage level as low as zero volts, as measured at the high voltage side of the wind GSU.
2. This requirement does not apply to faults that would occur between the wind generator terminals and the high side of the GSU.
3. Wind generating plants may be tripped after the fault period if this action is intended as part of a special protection system.
4. Wind generating plants may meet the LVRT requirements of this standard by the performance of the generators or by installing additional equipment (e.g., Static VAR Compensator) within the wind generating plant or by a combination of generator performance and additional equipment.

5. Existing individual generator units that are, or have been, interconnected to the CAISO Controlled Grid at the same location at the effective date of the Appendix H LVRT Standard are exempt from meeting the Appendix H LVRT Standard for the remaining life of the existing generation equipment. Existing individual generator units that are replaced are required to meet the Appendix H LVRT Standard.

#### **ii. Power Factor Design Criteria (Reactive Power)**

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

#### **iii. Supervisory Control and Data Acquisition (SCADA) Capability**

The wind plant shall provide SCADA capability to transmit data and receive instructions from the Participating TO and CAISO to protect system reliability. The Participating TO and CAISO and the wind plant Interconnection Customer shall determine what SCADA information is essential for the proposed wind plant, taking into account the size of the plant and its characteristics, location, and importance in maintaining generation resource adequacy and transmission system reliability in its area.